
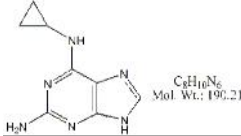
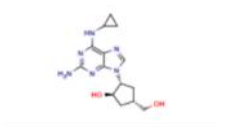
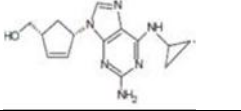
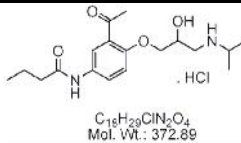
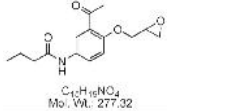
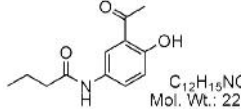




	Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
A	ABACAVIR					
	Abacavir EP Impurity A	(1R,4S)-Abacavir ; ent-Abacavir ; [(1R,4S)-4-[2-Amino-6-(cyclopropylamino)-9H-purin-9-yl]cyclopent-2-enyl]methanol	136470-79-6	C14H18N6O	286.33	
	Abacavir EP Impurity B	Abacavir USP RC D ; O-Pyrimidine Derivative Abacavir (USP) ; 6-(Cyclopropylamino)-9-[(1R,4S)-4-[[[2,5-diamino-6-chloropyrimidin-4-yl]oxy]methyl]cyclopent-2-enyl]-9H-purine-2-amine ;	1443421-69-9	C18H21ClN10O	428.88	
	Abacavir EP Impurity C	Abacavir USP RC A ; Descyclopropyl Abacavir (USP) ; [(1S,4R)-4-(2,6-Diamino-9H-purin-9-yl)cyclopent-2-enyl]methanol.	124752-25-6	C11H14N6O	246.27	
	Abacavir EP Impurity D	trans-Abacavir Dihydrochloride ; [(1R,4R)-4-[2-Amino-6-(cyclopropylamino)-9H-purin-9-yl]cyclopent-2-enyl]methanol dihydrochloride ;	783292-37-5	C14H20Cl2N6O	359.25	
	Abacavir EP Impurity E	Dihydro Abacavir ; [(1R,3S)-3-[2-Amino-6-(cyclopropylamino)-9H-purin-9-yl]cyclopentyl] methanol.	208762-35-0	C14H20N6O	288.35	
	Abacavir EP Impurity F	O-t-Butyl Derivative Abacavir (USP) ; Abacavir t-Butyl Ether ; 6-(Cyclopropylamino)-9-[(1R,4S)-4-[[[1,1-dimethylethyl]oxy]methyl]cyclopent-2-enyl]-9H-purine-2-amine.	1443421-68-8	C18H26N6O	342.44	

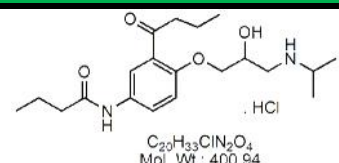
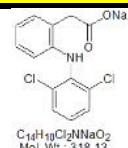
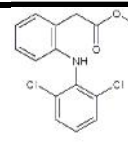
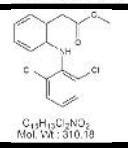
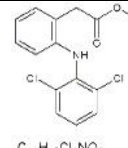
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Abacavir USB RC B	[4-(2,5-Diamino-6-chloropyrimidin-4-ylamino)cyclopent-2-enyl]methanol ;	141271-12-7	C ₁₉ H ₁₄ ClN ₅ O	255.70	 C ₁₉ H ₁₄ ClN ₅ O Mol. Wt.: 255.70
Abacavir Cyclopropyl	N6-Cyclopropyl-9H-purine-2,6-diamine.	120503-69-7	C ₈ H ₁₀ N ₆	190.21	 C ₈ H ₁₀ N ₆ Mol. Wt.: 190.21
3-Hydroxy Abacavir	(1R,2R,4S)-2-(2-amino-6-(cyclopropylamino)-9H-purin-9-yl)-4-(hydroxymethyl)cyclopentanol	NA	C ₁₄ H ₂₀ N ₆ O ₂	304.35	
Abacavir Enantiomer Impurity	(1R,4R)-4-[2-Amino-6-(cyclopropyl amino)-9H-purin-9-yl]-2-cyclopentene-1-methanol.	NA	C ₁₄ H ₁₈ N ₆ O	286.3	
ACEBUTOLOL					
Acebutolol HCl	Acebutolol Hydrochloride ; N-[3-Acetyl-4-[(2RS)-2-hydroxy-3-[(1-methylethyl)amino]propoxy] phenyl]butanamide hydrochloride ;	34381-68-5	C ₁₈ H ₂₉ ClN ₂ O ₄	372.89	 C ₁₈ H ₂₉ ClN ₂ O ₄ Mol. Wt.: 372.89
Acebutolol EP Impurity A	Acebutolol EP Impurity A ; 3'-Acetyl-4'-(2,3-epoxypropoxy)-butyranilide ;	28197-66-2	C ₁₅ H ₁₉ NO ₄	277.32	 C ₁₅ H ₁₉ NO ₄ Mol. Wt.: 277.32
Acebutolol EP Impurity C	N-(3-Acetyl-4-hydroxyphenyl)butanamide ;	40188-45-2	C ₁₂ H ₁₅ NO ₃	221.25	 C ₁₂ H ₁₅ NO ₃ Mol. Wt.: 221.25

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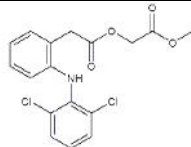
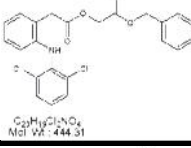
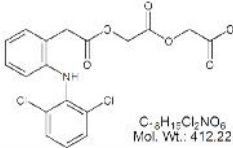
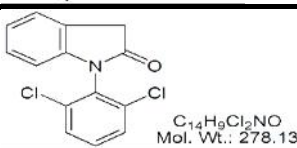
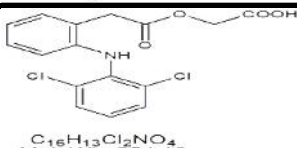
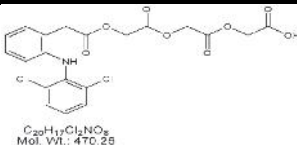
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Acebutolol EP Impurity J	N-[3-Acetyl-4-[(2RS)-2-hydroxy-3-[(1-methylethyl) amino] propoxy] phenyl] propanamide hydrochloride ;	57898-79-0	C ₁₇ H ₂₇ ClN ₂ O ₄	358.86	
Acebutolol EP Impurity B	Acebutolol USP RC B ; Diacetolol Hydrochloride ; N-[3-acetyl-4-[(2RS)-2-hydroxy-3-[(1-methylethyl) amino] propoxy] phenyl] acetamide hydrochloride ; 73899-76-0 (HCl salt) ; 22568-64-5 (base) ;	NA	C ₁₆ H ₂₅ ClN ₂ O ₄	344.83	
Acebutolol EP Impurity D	Acebutolol EP Impurity D ; 1-[5-Amino-2-[(2RS)-2-hydroxy-3-[(1-methylethyl)amino]propoxy]phenyl]ethanone ;	57898-80-3	C ₁₄ H ₂₂ N ₂ O ₃	266.34	
Acebutolol EP Impurity E	Acebutolol EP Impurity E ; Acebutolol Desacetyl Impurity ; N-[4-[(2RS)-2-Hydroxy-3-[(1-methylethyl)amino]propoxy]phenyl]butanamide hydrochloride ;	NA	C ₁₆ H ₂₇ ClN ₂ O ₃	330.85	
Acebutolol EP Impurity F	Acebutolol EP Impurity F ; Acebutolol Diol ; N-[3-Acetyl-4-[(2RS)-2,3-dihydroxypropoxy] phenyl]butanamide ;	96480-91-0	C ₁₅ H ₂₁ NO ₅	295.33	
Acebutolol EP Impurity G	N,N'-[[[1-Methylethyl]imino]bis[(2-hydroxypropane-1,3-diyl)oxy(3-acetyl-1,4-phenylene)]]dibutanamide ;	1330165-98-4	C ₃₃ H ₄₇ N ₃ O ₈	613.74	
Acebutolol EP Impurity H	N,N'[[[2-Hydroxypropane-1,3-diyl]bis[oxy(3-acetyl-1,4-phenylene)]]dibutanamide	1329613-31-1	1329613-31-1	498.57	
Acebutolol EP Impurity I	N-[3-Acetyl-4-[(2RS)-3-(ethylamino)-2-hydroxypropoxy]phenyl]butanamide ;	441019-91-6	C ₁₇ H ₂₆ N ₂ O ₄	322.40	

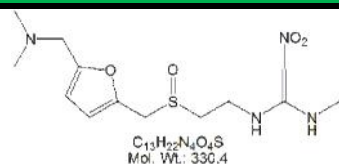
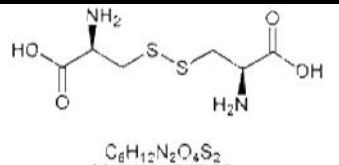
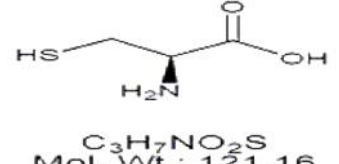
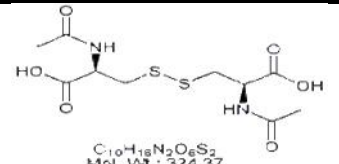
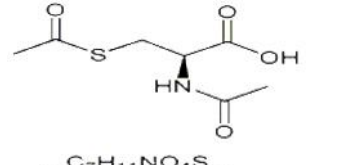
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Acebutolol EP Impurity K	3-Deacetyl-3-Butanoyl Acebutolol Hydrochloride ; N-[3-Butanoyl-4-[(2RS)-2-hydroxy-3-[(1-methylethyl) amino] propoxy] phenyl] butanamide HCl ;	57898-71-2	C ₂₀ H ₃₃ ClN ₂ O ₄	400.94	 <p>C₂₀H₃₃ClN₂O₄ Mol. Wt.: 400.94</p>
ACECLOFENAC					
Aceclofenac EP Impurity A	[2-[(2,6-Dichlorophenyl)amino]phenyl]acetic acid sodium salt ;	15307-79-6	C ₁₄ H ₁₁ Cl ₂ NO ₂	296.15	 <p>C₁₄H₁₁Cl₂NO₂ Mol. Wt.: 318.13</p>
Aceclofenac	[[[2-[(2,6-Dichlorophenyl)amino]phenyl]acetyl]oxy]acetic acid ;	89796-99-6	C ₁₆ H ₁₃ Cl ₂ NO ₄	354.18	 <p>C₁₆H₁₃Cl₂NO₄ Mol. Wt.: 354.18</p>
Aceclofenac EP Impurity B	Methyl [2-[(2,6-dichlorophenyl)amino]phenyl]acetate ;	15307-78-5	C ₁₅ H ₁₃ Cl ₂ NO ₂	310.18	 <p>C₁₅H₁₃Cl₂NO₂ Mol. Wt.: 310.18</p>
Aceclofenac EP Impurity C	Ethyl [2-[(2,6-dichlorophenyl)amino]phenyl]acetate ;	15307-77-4	C ₁₆ H ₁₅ Cl ₂ NO ₂	324.20	 <p>C₁₆H₁₅Cl₂NO₂ Mol. Wt.: 324.2</p>

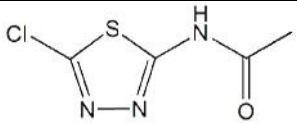
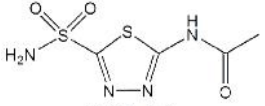
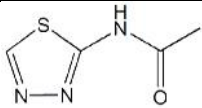
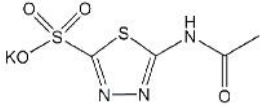
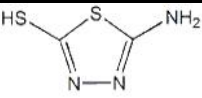
Impurity Catalogue

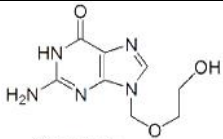
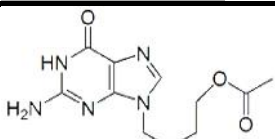
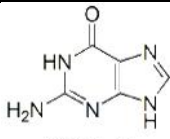
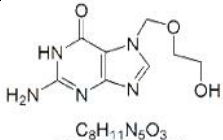
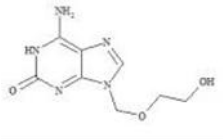
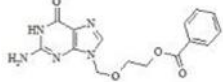
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Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Aceclofenac EP Impurity D	Methyl [[[[2-[(2,6-dichlorophenyl)amino]phenyl]acetyl]oxy]acetate ;	139272-66-5	C ₁₇ H ₁₃ Cl ₂ NO ₄	368.21	 <p>C₁₇H₁₃Cl₂NO₄ Mol. Wt.: 368.21</p>
Aceclofenac EP Impurity F	Benzyl [[[[2-[(2,6-dichlorophenyl)amino]phenyl]acetyl]oxy]acetate ;	100499-89-6	C ₂₃ H ₁₉ Cl ₂ NO ₄	444.31	 <p>C₂₃H₁₉Cl₂NO₄ Mol. Wt.: 444.31</p>
Aceclofenac EP Impurity G	[[[[[2-[(2,6-Dichlorophenyl)amino]phenyl]acetyl]oxy]acetyl]oxy]acetic acid ;	1215709-75-3	C ₁₈ H ₁₅ Cl ₂ NO ₆	412.22	 <p>C₁₈H₁₅Cl₂NO₆ Mol. Wt.: 412.22</p>
Aceclofenac EP Impurity I	1-(2,6-Dichlorophenyl)-1,3-dihydro-2H-indol-2-one ;	15362-40-0	C ₁₄ H ₉ Cl ₂ NO	278.13	 <p>C₁₄H₉Cl₂NO Mol. Wt.: 278.13</p>
Aceclofenac	[[[2-[(2,6-Dichlorophenyl)amino]phenyl]acetyl]oxy]acetic acid ;	89796-99-6	C ₁₆ H ₁₃ Cl ₂ NO ₄	354.18	 <p>C₁₆H₁₃Cl₂NO₄ Mol. Wt.: 354.18</p>
Aceclofenac EP Impurity H	Diacetic Aceclofenac ; [[[[[[2-[(2,6-Dichlorophenyl)amino]phenyl]acetyl]oxy]acetyl]oxy]acetyl]oxy]acetic acid ;	NA	C ₂₀ H ₁₇ Cl ₂ NO ₈	470.26	 <p>C₂₀H₁₇Cl₂NO₈ Mol. Wt.: 470.26</p>

Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Aceclofenac EP Impurity E	Ethyl [[[(2,6-dichlorophenyl) amino] phenyl] acetyl] oxy acetate ;	139272-67-6	C ₁₈ H ₁₇ Cl ₂ NO ₄	382.24	 C ₁₃ H ₂₂ N ₄ O ₄ S Mol. Wt.: 330.4
ACETYL-CYSTEINE					
Acetylcysteine EP Impurity A	L-Cystine ;	56-89-3	C ₆ H ₁₂ N ₂ O ₄ S ₂	240.30	 C ₆ H ₁₂ N ₂ O ₄ S ₂ Mol. Wt.: 240.30
Acetylcysteine EP Impurity B	L-Cysteine ;	52-90-4	C ₃ H ₇ NO ₂ S	121.16	 C ₃ H ₇ NO ₂ S Mol. Wt.: 121.16
Acetylcysteine EP Impurity C	N,N'-Diacetyl-L-cystine ;	5545-17-5	C ₁₀ H ₁₆ N ₂ O ₆ S ₂	324.37	 C ₁₀ H ₁₆ N ₂ O ₆ S ₂ Mol. Wt.: 324.37
Acetylcysteine EP Impurity D	N,S-Diacetyl-L-cysteine ;	18725-37-6	C ₇ H ₁₁ NO ₄ S	205.23	 C ₇ H ₁₁ NO ₄ S Mol. Wt.: 205.23
ACETAZOLAMIDE					

Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Acetazolamide EP Impurity A	N-(5-Chloro-1,3,4-thiadiazol-2-yl)acetamide ;	60320-32-3	C ₄ H ₄ ClN ₃ OS	177.61	 <p>C₄H₄ClN₃OS Mol. Wt.: 177.61</p>
Acetazolamide	N-(5-Sulfamoyl-1,3,4-thiadiazol-2-yl)acetamide ;	59-66-5	C ₄ H ₆ N ₄ O ₃ S ₂	222.25	 <p>C₄H₆N₄O₃S₂ Mol. Wt.: 222.25</p>
Acetazolamide EP Impurity B	N-(1,3,4-Thiadiazol-2-yl)acetamide ;	5393-55-5	C ₄ H ₅ N ₃ OS	143.17	 <p>C₄H₅N₃OS Mol. Wt.: 143.17</p>
Acetazolamide EP Impurity E	5-Acetamido-1,3,4-thiadiazole-2-sulfonic acid potassium salt ;	NA	C ₄ H ₄ KN ₃ O ₄ S ₂	261.32	 <p>C₄H₄KN₃O₄S₂ Mol. Wt.: 261.32</p>
Acetazolamide EP Impurity G	5-Amino-1,3,4-thiadiazole-2-thiol ;	2349-67-9	C ₂ H ₃ N ₃ S ₂	133.2	 <p>C₂H₃N₃S₂ Mol. Wt.: 133.2</p>
ACICLOVIR					

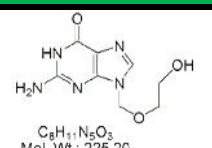
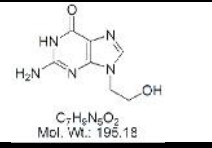
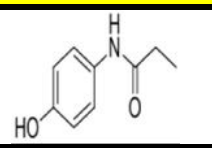
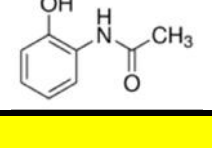
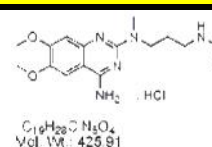
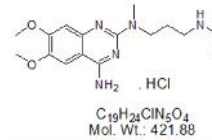
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Aciclovir	Valaciclovir EP Impurity B ; 2-Amino-9-[(2-hydroxyethoxy)methyl]-1,9-dihydro-6H-purin-6-one ;	59277-89-3	C ₈ H ₁₁ N ₅ O ₃	225.20	 <p>C₈H₁₁N₅O₃ Mol. Wt.: 225.20</p>
Aciclovir EP Impurity A	2-[(2-Amino-6-oxo-1,6-dihydro-9H-purin-9-yl)methoxy]ethyl acetate ;	102728-64-3	C ₁₀ H ₁₃ N ₅ O ₄	267.24	 <p>C₁₀H₁₃N₅O₄ Mol. Wt.: 267.24</p>
Aciclovir EP Impurity B	2-Amino-1,9-dihydro-6H-purin-6-one ;	73-40-5	C ₅ H ₅ N ₅ O	151.13	 <p>C₅H₅N₅O Mol. Wt.: 151.13</p>
Aciclovir EP Impurity C	2-Amino-7-[(2-hydroxyethoxy)methyl]-1,7-dihydro-6H-purin-6-one	91702-61-3	C ₈ H ₁₁ N ₅ O ₃	225.20	 <p>C₈H₁₁N₅O₃ Mol. Wt.: 225.20</p>
Aciclovir Impurity E	NA	NA	C ₈ H ₁₁ N ₅ O ₃	225.21	
Aciclovir EP Impurity D	NA	59277-91-7	C ₁₅ H ₁₅ N ₅ O ₄	329.32	

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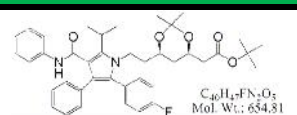
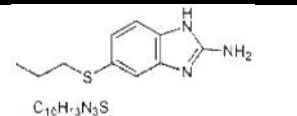
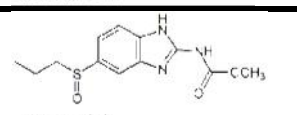
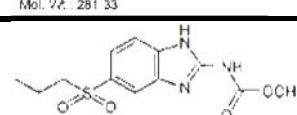
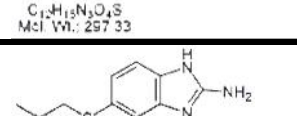
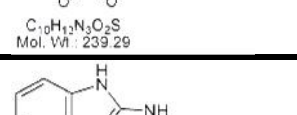


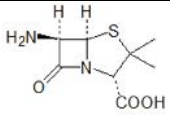
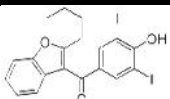
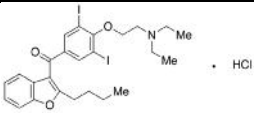
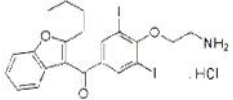
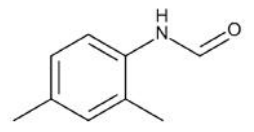
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Aciclovir EP Impurity F	N-[9-[(2-Hydroxyethoxy)methyl]-6-oxo-6,9-dihydro-1H-purin-2-yl]acetamide ;	110104-37-5	C ₁₀ H ₁₃ N ₅ O ₄	267.24	
Aciclovir EP Impurity G	2-[[2-(Acetylamino)-6-oxo-1,6-dihydro-9H-purin-9-yl]methoxy]ethyl acetate ;	75128-73-3	C ₁₂ H ₁₅ N ₅ O ₅	309.28	
Aciclovir EP Impurity H	2-((2-acetamido-6-oxo-1H-purin-9(6H)-yl)methoxy)ethyl benzoate	133186-23-9	C ₁₇ H ₁₇ N ₅ O ₅	371.36	
Aciclovir EP Impurity I	2-Amino-7-[[2-[(2-amino-6-oxo-1,6-dihydro-9H-purin-9-yl)methoxy]ethoxy] methyl]-1,7-dihydro-6H-purin-6-one ;	1797832-75-7	C ₁₄ H ₁₆ N ₁₀ O ₄	388.34	
Aciclovir EP Impurity J	9,9'-[Ethylenebis(oxymethylene)]bis(2-amino-1,9-dihydro-6H-purin-6-one) ;	166762-90-9	C ₁₄ H ₁₆ N ₁₀ O ₄	388.34	
Aciclovir EP Impurity K	2,2'-[Methylenediimino]bis[9-[(2-hydroxyethoxy)methyl]1,9-dihydro-6H-purin-6-one] ;	1797131-64-6	C ₁₇ H ₂₂ N ₁₀ O ₆	462.42	

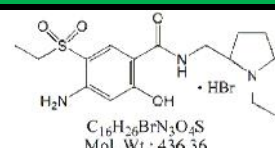
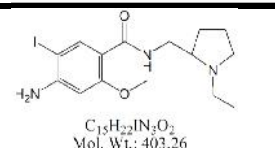
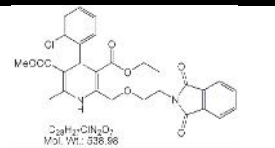
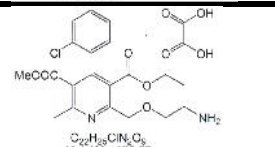
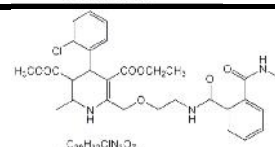
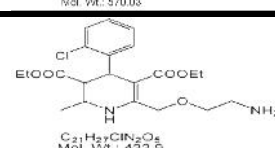
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Aciclovir	Valaciclovir EP Impurity B ; 2-Amino-9-[(2-hydroxyethoxy)methyl]-1,9-dihydro-6H-purin-6-one ;	59277-89-3	C ₈ H ₁₁ N ₅ O ₃	225.20	 C ₈ H ₁₁ N ₅ O ₃ Mol. Wt.: 225.20
Aciclovir EP Impurity P	2-Amino-9-(2-hydroxyethyl)1,9-dihydro-6H-purin-6-one ;	23169-33-7	C ₇ H ₉ N ₅ O ₂	195.18	 C ₇ H ₉ N ₅ O ₂ Mol. Wt.: 195.18
ACETAMINOPHEN					
Acetaminophen Related Compound B	N-(4-hydroxyphenyl)propionamide, Acetaminophen Impurity B, Paracetamol EP Impurity B	1693-37-4	C ₉ H ₁₁ NO ₂	165.19	
Acetaminophen Related Compound C	2'-Hydroxyacetanilide, 2-Acetamidophenol, N-(2-Hydroxyphenyl)acetamide,	614-80-2	CH ₃ CONHC ₆ H ₄ OH	151.16	
ALFUZOSIN					
Alfuzosin HCl	Alfuzosin Hydrochloride working standard	81403-68-1	C ₁₉ H ₂₈ ClN ₅ O ₄	425.91	 C ₁₉ H ₂₈ ClN ₅ O ₄ Mol. Wt.: 425.91
Alfuzosin EP Impurity A	Alfuzosin EP Impurity A ; Alfuzosin USP Related Compound A ; Alfuzosin Tetradehydro Impurity ; N-[3-[(4-Amino-6,7-dimethoxyquinazolin-2-yl)(methyl)amino]propyl]furan-2-carboxamide hydrochloride	98902-29-5	C ₁₉ H ₂₄ ClN ₅ O ₄	421.88	 C ₁₉ H ₂₄ ClN ₅ O ₄ Mol. Wt.: 421.88



Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Alfuzosin EP Impurity B	Alfuzosin EP Impurity B ; 2-chloro-6,7-dimethoxyquinazolin-4-amine ; 4-Amino-2-chloro-6,7-dimethoxyquinazoline ; 2-Chloro-6,7-dimethoxy-4-quinazolinamine	23680-84-4	C ₁₀ H ₁₀ ClN ₃ O ₂	239.66	<p>C₁₀H₁₀ClN₃O₂ Mol. Wt.: 239.66</p>
Alfuzosin EP Impurity C	N-(3-(4-amino-6,7-dimethoxyquinazolin-2-ylamino)propyl)-tetrahydrofuran-2-carboxamide; N-Desmethyl impurity of Alfuzosin	NA	C ₁₈ H ₂₆ ClN ₅ O ₄ (HCl Salt)	411.17 (HCl salt)	<p>C₁₈H₂₆ClN₅O₄ Mol. Wt.: 411.17</p>
Alfuzosin EP Impurity D	Alfuzosin EP Impurity D ; Alfuzosin Aminopropyl Impurity ; Alfuzosin USP Related Compound D	81403-69-2	C ₁₄ H ₂₂ ClN ₅ O ₂	327.81	<p>C₁₄H₂₂ClN₅O₂ Mol. Wt.: 327.81</p>
Alfuzosin EP Impurity E	N-Formyl Alfuzosin ; N-[3-[(4-Amino-6,7-dimethoxyquinazolin-2-yl)(methyl)amino]propyl]formamide hydrochloride	1026411-59-5	C ₁₅ H ₂₂ ClN ₅ O ₃	355.82	<p>C₁₅H₂₂ClN₅O₃ Mol. Wt.: 355.82</p>
Alfuzosin EP Impurity F	6,7-dimethoxy-N2,N2-dimethylquinazoline-2,4-diamine	19216-68-3	C ₁₂ H ₁₆ N ₄ O ₂	248.28	<p>C₁₂H₁₆N₄O₂ Mol. Wt.: 248.28</p>
Alfuzosin EP Impurity G	N2-(3-(4-amino-6,7-dimethoxyquinazolin-2-ylamino)propyl)-6,7-dimethoxy-N2-methylquinazoline-2,4-diamine	928780-95-4	C ₂₄ H ₃₀ N ₈ O ₄	494.56	<p>C₂₄H₃₀N₈O₄ Mol. Wt.: 494.56</p>
ATORVASTATIN					

Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Atorvastatin EP Impurity I	(4R,6R)-6-[2-[2-(4-Fluorophenyl)-5-(1-methylethyl)-3-phenyl-4-[(phenylamino)carbonyl]-1H-pyrrol-1-yl]ethyl]-2,2-dimethyl-1,3-dioxane-4-acetic acid t-butyl ester.	125971-95	C ₄₀ H ₄₇ FN ₂ O ₅	654.81	 C ₄₀ H ₄₇ FN ₂ O ₅ Mol. Wt.: 654.81
ALBENDAZOLE					
Albendazole EP Impurity A	5-(Propylsulphonyl)-1H-benzimidazol-2-amine ;	80983-36-4	C ₁₀ H ₁₃ N ₃ S	207.3	 C ₁₀ H ₁₃ N ₃ S Mol. Wt.: 207.3
Albendazole EP Impurity B	Methyl [5-(propylsulphonyl)-1Hbenzimidazol-2-yl]carbamate ;	54029-12-8	C ₁₂ H ₁₅ N ₃ O ₃ S	281.33	 C ₁₂ H ₁₅ N ₃ O ₃ S Mol. Wt.: 281.33
Albendazole EP Impurity C	Methyl [5-(propylsulphonyl)-1Hbenzimidazol-2-yl]carbamate ;	75184-71-3	C ₁₂ H ₁₅ N ₃ O ₄ S	297.33	 C ₁₂ H ₁₅ N ₃ O ₄ S Mol. Wt.: 297.33
Albendazole EP Impurity D	Desmethoxycarbonyl Albendazole Sulfone ; 5-(Propylsulphonyl)-1Hbenzimidazol-2-amine	80983-34-2	C ₁₀ H ₁₃ N ₃ O ₂ S	239.29	 C ₁₀ H ₁₃ N ₃ O ₂ S Mol. Wt.: 239.29
Albendazole EP Impurity E	Methyl (1H-benzimidazol-2-yl)carbamate ;	10605-21-7	C ₉ H ₉ N ₃ O ₂	191.19	 C ₉ H ₉ N ₃ O ₂ Mol. Wt.: 191.19
AMOXICILLIN					

Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Amoxicillin EP Impurity A	(+)-6-Aminopenicillanic acid ; (2S,5R,6R)-6-Amino-3,3-dimethyl-7-oxo-4-thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid ;	551-16-6	C ₈ H ₁₂ N ₂ O ₃ S	216.26	 <p>C₈H₁₂N₂O₃S Mol. Wt.: 216.26</p>
AMIODARONE					
Amiodarone EP Impurity D	2-Butyl-3-(3,5-diiodo-4-hydroxybenzoyl)benzofuran ;	1951-26-4	C ₁₉ H ₁₆ I ₂ O ₃	546.14	 <p>C₁₉H₁₆I₂O₃ Mol. Wt.: 546.14</p>
Amiodarone Hydrochloride	(2-Butyl-3-benzofuranyl)[4-[2-(diethylamino)ethoxy]-3,5-diiodophenyl]methanone Hydrochloride; 4-[2-(Diethylamino)ethoxy]-3,5-diiodophenyl 2-butyl-3-benzofuranyl Ketone Hydrochloride;	19774-82-4	C ₂₅ H ₃₀ ClI ₂ NO ₃	681.77	 <p>· HCl</p>
Amiodarone Didesethyl Impurity	N,N-Di-desethyl Amiodarone ; (2-Butylbenzofuran-3-yl)[4-[2-aminoethoxy]-3,5-diiodophenyl]methanone ;	757220-04-5	C ₂₁ H ₂₁ I ₂ NO ₃	589.21	 <p>· HCl</p> <p>C₂₁H₂₁I₂NO₃ Mol. Wt.: 589.21 (base)</p>
AMITRAZ					
Amitraz Impurity B	Amitraz Imp. B (BP): Form-2',4'-xylidide	60397-77-5	C ₉ H ₁₁ NO	149.1897	
AMISULPRIDE					

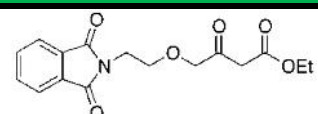
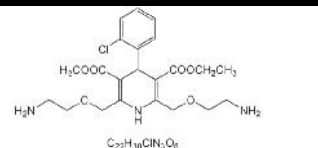
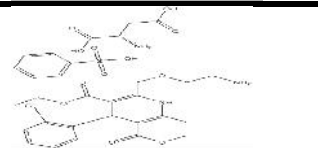
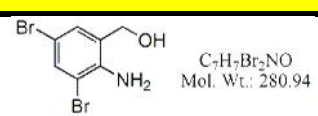
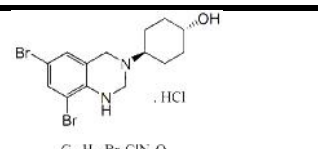
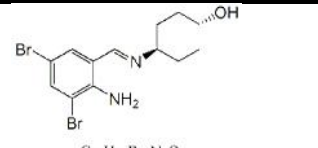
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Amisulpride EP Impurity B	4-Amino-N-[[[(2RS)-1-ethylpyrrolidin-2-yl]methyl]-5-(ethylsulfonyl)-2-hydroxybenzamide HBr ;	NA	C ₁₆ H ₂₆ BrN ₃ O ₄ S	436.36	 C ₁₆ H ₂₆ BrN ₃ O ₄ S Mol. Wt.: 436.36
Amisulpride EP Impurity C	4-Amino-N-[[[(2RS)-1-ethylpyrrolidin-2-yl]methyl]-5-iodo-2-methoxybenzamide ;	176849-91-5	C ₁₅ H ₂₂ IN ₂ O ₂	403.26	 C ₁₅ H ₂₂ IN ₂ O ₂ Mol. Wt.: 403.26
AMLODIPINE					
Amlodipine EP Impurity A	NA	88150-62-3	C ₂₈ H ₂₇ ClN ₂ O ₇	538.98	 C ₂₈ H ₂₇ ClN ₂ O ₇ Mol. Wt.: 538.98
Amlodipine EP Impurity D	Amlodipine EP Impurity D ; Amlodipine USP Related Compound A ; Dehydro Amlodipine Oxalate ; 3-Ethyl 5-methyl 2-[(2-aminoethoxy)methyl]-4-(2-chlorophenyl)-6-methylpyridine-3,5-dicarboxylate oxalate salt	1216406-90-4	C ₂₂ H ₂₅ ClN ₂ O ₉	496.89	 C ₂₂ H ₂₅ ClN ₂ O ₉ Mol. Wt.: 496.89
Amlodipine EP Impurity B	Amlodipine EP Impurity B ; 3-Ethyl 5-methyl 4-(2-chlorophenyl)-6-methyl-2-[[2- [(2-(methylcarbamoyl)benzoyl)amino]ethoxy)methyl]-1,4-dihydropyridine-3,5-dicarboxylate	721958-72-1	C ₂₉ H ₃₂ ClN ₃ O ₇	570.03	 C ₂₉ H ₃₂ ClN ₃ O ₇ Mol. Wt.: 570.03
Amlodipine EP Impurity E	Amlodipine USP RC E ; Amlodipine Diethyl Ester ; 3-Ethyl 5-ethyl 4-(2-chlorophenyl)-6-methyl-2-[[2- [(2-aminoethoxy)methyl]-1,4-dihydropyridine-3,5-dicarboxylate	140171-65-9	C ₂₁ H ₂₇ ClN ₂ O ₆	422.9	 C ₂₁ H ₂₇ ClN ₂ O ₆ Mol. Wt.: 422.9

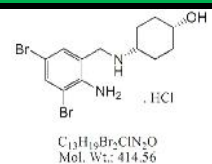
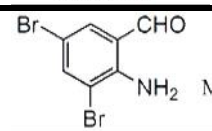
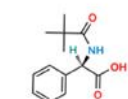
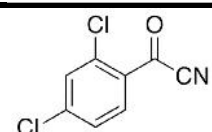
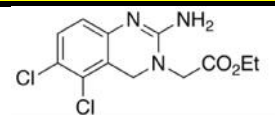
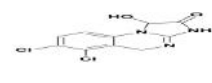
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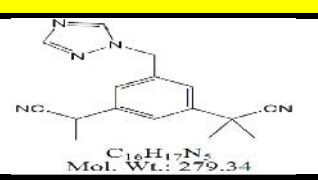
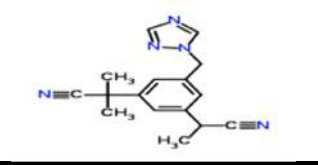
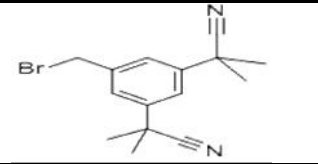
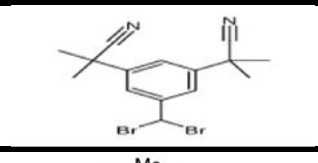
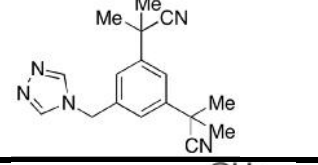
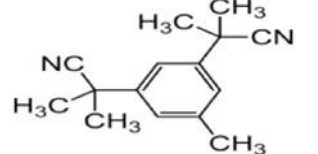
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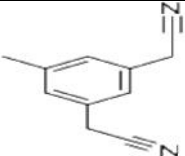
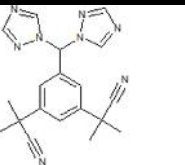
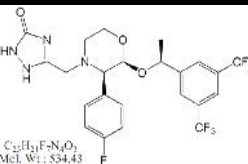
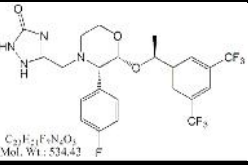
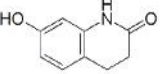
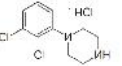


Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Amlodipine EP Impurity F	Amlodipine USP RC F ; Amlodipine Dimethyl Ester ; 3-Methyl 5-methyl 4-(2-chlorophenyl)-6-methyl-2-[[2- [(2-aminoethoxy)methyl]-1,4-dihydropyridine-3,5-dicarboxylate	140171-66-0	C ₁₉ H ₂₃ ClN ₂ O ₅	394.85	
Amlodipine EP Impurity G	Amlodipine USP RC C ; 3-Methyl 5-methyl 4-(2-chlorophenyl)-2,6-dimethyl-1,4-dihydropyridine-3,5-dicarboxylate ;	43067-01-2	C ₁₇ H ₁₈ ClN ₂ O ₄	335.78	
Amlodipine EP Impurity H	Amlodipine EP Impurity H ; 3-Ethyl 5-methyl 4-(2-chlorophenyl)-6-methyl-2-[[2-[(2-carboxybenzoyl) amino ethoxy]]methyl]-1,4-dihydropyridine-3,5-dicarboxylate ;	318465-73-5	C ₂₈ H ₂₉ ClN ₂ O ₈	556.99	
Amlodipine EP Impurity 1	4-(2-Chlorophenyl)-2-[[2-(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)ethoxy]methyl]-1,4-dihydro-6-methyl-3,5-pyridinedicarboxylic Acid 3,5-Dimethyl Ester	140171-50-2	C??H??ClN?O?	524.95	
P-Cl-Amlodipine	3-Ethyl 5-methyl Ester 2-[(2-Aminoethoxy)methyl]-4-(4-chlorophenyl)-1,4-dihydro-6-methyl-3,5-pyridinedicarboxylic Acid;	90445-02-6	C ₂₀ H ₂₅ ClN ₂ O ₂	408.88	
Benzenesulfonic Acid Ethyl Ester	Benzenesulfonic Acid Ethyl Ester ; Ethyl Benzenesulfonate ; Ethyl Besylate ;	515-46-8	C ₈ H ₁₀ O ₃ S	186.23	

Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Amlodipine EP Impurity 2	Ethyl 4-(2-Phthalimidoethoxy)acetoacetate; 4-[2-(1,3-Dioxo-1,3-dihydroisoindol-2-yl)ethoxy]-3-oxobutanoic Acid Ethyl Ester; 4-[2-(1,3-Dihydro-1,3-dioxo-2H-isoindol-2-yl)ethoxy]-3-oxobutanoic Acid Ethyl Ester.	88150-75-8	C16H17NO6	319.31	
Amlodipine EP Impurity C	Amlodipine EP Impurity C ; Bis(aminoethoxy) Amlodipine ; Ethyl methyl 2,6-bis[(2-aminoethoxy)methyl]-4-(2-chlorophenyl)-1,4-dihydropyridine-3,5-dicarboxylate ;	721958-74-3	C22H30ClN3O6	467.94	 C ₂₂ H ₃₀ ClN ₃ O ₆ Mol. Wt.: 467.94
AMlodipine Aspartic Acid IMpurity	AMlodipine Aspartic Acid IMpurity	400602-35-9	C30H38ClN3O12 S	700.16	
AMBROXOL					
Ambroxol EP Impurity A	Ambroxol EP Impurity A ; Bromhexine EP Impurity A ; 2-Amino-3,5-dibromobenzenemethanol ; (2-Amino-3,5-dibromophenyl)methanol ; (2-Amino-3,5-dibromo-1-hydroxymethyl)benzene ; (2,4-dibromo-6-hydroxymethyl)aniline ;	50739-76-9	C7H7Br2NO	280.94	 C ₇ H ₇ Br ₂ NO Mol. Wt.: 280.94
Ambroxol EP Impurity B	trans-4-(6,8-Dibromo-1,4-dihydroquinazolin-3(2H)-yl)cyclohexanol hydrochloride ;	15942-08-2	C14H18Br2N2O	390.11	 C ₁₄ H ₁₈ Br ₂ N ₂ O Mol. Wt.: 426.37
Ambroxol EP Impurity C	Dehydro Ambroxol ; trans-4-[[[(E)-2-Amino-3,5-dibromobenzylidene]amino]cyclohexanol ;	50910-53-7	C13H16Br2N2O	376.09	 C ₁₃ H ₁₆ Br ₂ N ₂ O Mol. Wt.: 376.09

Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Ambroxol EP Impurity D	cebrophylline Impurity D ; cis-Ambroxol HCl ; cis-4-[(2-Amino-3,5-dibromobenzyl)amino]cyclohexanol HCl ;	107814-37-9	C ₁₃ H ₁₉ Br ₂ ClN ₂ O	414.56	 C ₁₃ H ₁₉ Br ₂ ClN ₂ O Mol. Wt.: 414.56
Ambroxol EP Impurity E	Bromhexine EP Impurity B ; 2-Amino-3,5-dibromobenzaldehyde ;	50910-55-9	C ₇ H ₅ Br ₂ NO	278.93	 C ₇ H ₅ Br ₂ NO Mol. Wt.: 278.93
AMPICILLIN					
Ampicillin Impurity K	(2R)-2-[(2,2-Dimethylpropanoyl)amino]-2-phenylacetic acid	40610-41-1	C ₁₃ H ₁₇ NO ₃	235.28	
2,4-Dichlorobenzoyl Cyanide	2,4-Dichlorophenylglyoxylonitrile; 2,4-Dichloro-?-oxo-benzeneacetoneitrile.	35022-43-6	C ₈ H ₃ Cl ₂ NO	200.02	
ANAGRELIDE					
Anagrelide Impurity C	2-Amino-5,6-dichloro-3(4H)-quinazoline Acetic Acid Ethyl Ester Hydrobromide; USP Anagrelide Related Compound C;	70381-75-8	C ₁₂ H ₁₄ BrCl ₂ N ₃ O ₂	383.07	 · HB
Anagrelide Impurity D	1-Hydroxy Anagrelide;6,7-Dichloro-3,5-dihydro-1-hydroxyimidazo[1,2-a]quinazolin-2(1H)-one; Anagrelide Impurity.	875467-41-7	C ₁₀ H ₇ Cl ₂ N ₃ O ₂	272.09	

Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
ANASTROZOLE					
Anastrozole EP Impurity A	Anastrozole USP RC B ; ?-Desmethyl Anastrozole ; 2-[3-[(1RS)-1-Cyanoethyl]-5-(1H-1,2,4-triazol-1-ylmethyl)phenyl]-2-methylpropanenitrile ;	1215780-15-6	C ₁₆ H ₁₇ N ₅	279.34	 C ₁₆ H ₁₇ N ₅ Mol. Wt.: 279.34
Anastrozole USP Impurity B	NA	1215780-15-6	C ₁₆ H ₁₇ N ₅	279.34	
Anastrozole USP Impurity D	NA	120511-84-4	C ₁₅ H ₁₇ BrN ₂	305.21	
Anastrozole USP Impurity E	NA	1027160-12-8	C ₁₅ H ₁₆ Br ₂ N ₂	384.11	
Anastrozole EP Impurity G	Anastrozole regio isomer; 2,2'-(5-(4H-1,2,4-triazol-4-ylmethyl)benzene-1,3-diyl)bis(2-methylpropanenitrile).	120511-92-4	C ₁₇ H ₁₉ N ₅	293.37	
Anastrozole EP Impurity H	2,2'-(5-methylbenzene-1,3-diyl)bis(2-methylpropanenitrile)	120511-72-0	C ₁₅ H ₁₈ N ₂	226.32	

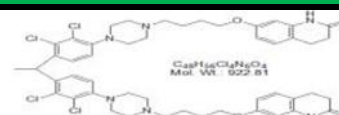
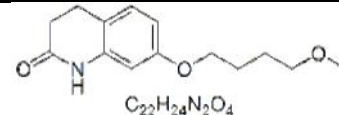
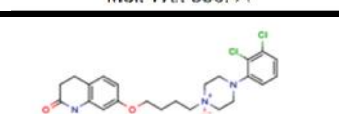
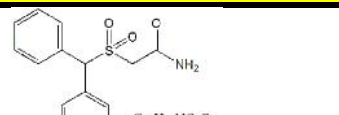
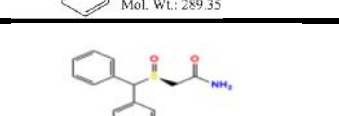
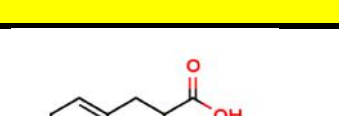
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Anastrozole Impurity 1	Anastrozole 1,3-Dicyanomethyl Impurity; 1,3-Bis(cyanomethyl)-5-methylbenzene ; (3-Cyanomethyl-5-methylphenyl)acetonitrile ; 5-Methylbenzene-1,3-diacetonitrile	120511-74-2	C11H10N2	170.21	
Anastrozole Impurity 2	2,2'-(5-((1H-1,2,4-triazole-4-yl)(4H-1,2,4-triazole-4-yl)methyl)-1,3-phenylene)bis(2-methylpropanenitrile)	NA	C19H20N8	360.42	
APREPITANT					
Aprepitant EP Impurity D	3-[[[(2S,3R)-2-[(S)-1-[3,5-Bis(trifluoromethyl)phenyl]ethoxy]-3-(4-fluoro phenyl)morpholino]methyl]-1H-1,2,4-triazol-5(4H)-one.	172822-29-6	C23H21F7N4O3	534.43	 C ₂₃ H ₂₁ F ₇ N ₄ O ₃ Mol. Wt.: 534.43
Aprepitant (S,R,S)-Isomer	5-[[[(2R,3S)-2-[(S)-1-[3,5-bis(trifluoromethyl)phenyl]ethoxy)-3-(4-fluoro phenyl)morpholino]methyl]-1H-1,2,4-triazol-3(2H)-one ;	NA	C23H21F7N4O3	534.43	 C ₂₃ H ₂₁ F ₇ N ₄ O ₃ Mol. Wt.: 534.43
ARIPIRAZOLE					
Aripiprazole EP Impurity A	Aripiprazole Dihydro Quinolinone Impurity (USP) ; 3,4-Dihydro-7-hydroxy-2(1H)-quinolinone ; 7-Hydroxy-3,4-dihydroquinolin-2(1H)-one.	22246-18-0	C9H9NO2	163.17	 C ₉ H ₉ NO ₂ Mol. Wt.: 163.17
Aripiprazole EP Impurity B	Aripiprazole USP Related Compound C ; 1-(2,3-Dichlorophenyl)piperazine hydrochloride.	119532-26-2	C10H13Cl3N2	267.58	 Mol. Wt.: 267.58

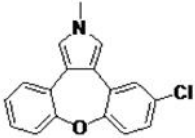
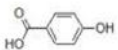
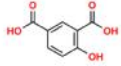

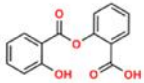
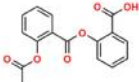
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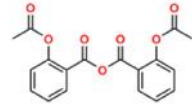
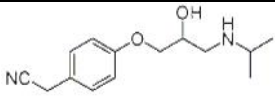
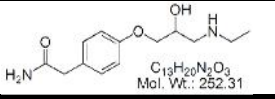
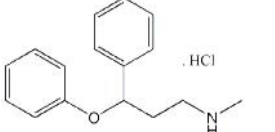
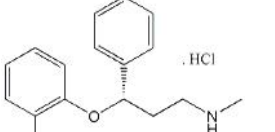
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Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Aripiprazole EP Impurity C	Aripiprazole 3-Deschloro Impurity ; 7-[4-[4-(2-Chlorophenyl)-1-piperazinyl]butoxy]-3,4-dihydro-2(1H)-quinolinone.	203395-81-7	C ₂₃ H ₂₈ ClN ₃ O ₂	413.94	 C ₂₃ H ₂₈ ClN ₃ O ₂ Mol. Wt.: 413.94
Aripiprazole EP Impurity D	Aripiprazole 2-Deschloro Impurity ; 7-[4-[4-(3-Chlorophenyl)-1-piperazinyl]butoxy]-3,4-dihydro-2(1H)-quinolinone.	203395-82-8	C ₂₃ H ₂₈ ClN ₃ O ₂	413.94	 C ₂₃ H ₂₈ ClN ₃ O ₂ Mol. Wt.: 413.94
Aripiprazole EP Impurity E	Aripiprazole USP RC G ; Dehydro Aripiprazole ; 7-[4-[4-(2,3-Dichlorophenyl)-1-piperazinyl]butoxy]-2(1H)-quinolinone.	129722-25-4	C ₂₃ H ₂₅ Cl ₂ N ₃ O ₂	482.83	 C ₂₃ H ₂₅ Cl ₂ N ₃ O ₂ Mol. Wt.: 482.83
Aripiprazole EP Impurity F	Aripiprazole USP RC F ; Aripiprazole N-Oxide ; 4-(2,3-Dichlorophenyl)-1-(4-(2-oxo-1,2,3,4-tetrahydroquinolin-7-yloxy)butyl) piperazine 1-oxide.	573691-09-5	C ₂₃ H ₂₇ Cl ₂ N ₃ O ₃	464.38	 C ₂₃ H ₂₇ Cl ₂ N ₃ O ₃ Mol. Wt.: 464.38
Aripiprazole Bromo	Aripiprazole Bromobutoxyquinoline Impurity ; 7-(4-Bromobutoxy)-3,4-dihydroquinolin-2-one.	129722-34-5	C ₁₃ H ₁₆ BrNO ₂	298.18	 C ₁₃ H ₁₆ BrNO ₂ Mol. Wt.: 298.18
Aripiprazole-2	NA	882880-12-8	C ₂₂ H ₂₄ N ₂ O ₄	380.44	 C ₂₂ H ₂₄ N ₂ O ₄ Mol. Wt.: 380.44
Aripiprazole Impurity 3	NA	203395-59-9	C??H??BrNO?	296.16	 C??H??BrNO?
Aripiprazole Impurity 4	NA	1006607-63-1	C ₃₆ H ₄₂ Cl ₂ N ₄ O ₄	664.26	 C ₃₆ H ₄₂ N ₂ OS Mol. Wt.: 180.23
Aripiprazole 3,4-Dichloro	7-(4-(4-(3,4-Dichlorophenyl)piperazin-1-yl)butoxy)-3,4-dihydroquinolin-2(1H)-one ;	NA	C ₂₃ H ₂₇ Cl ₂ N ₃ O ₂	448.39	 C ₂₃ H ₂₇ Cl ₂ N ₃ O ₂ Mol. Wt.: 448.39
Aripiprazole Quinolinone Impurity	7-Hydroxy-2(1H)-quinolinone ; 7-Hydroxyquinoline-(1H)-2-one ;	70500-72-0	C ₉ H ₇ NO ₂	161.16	 C ₉ H ₇ NO ₂ Mol. Wt.: 161.16
Aripiprazole USP RC B	Aripiprazole Hydroxybutoxyquinoline Impurity ; 7-(4-Hydroxybutoxy)-3,4-dihydroquinolin-2(1H)-one ;	889443-20-3	C ₁₃ H ₁₇ NO ₃	235.28	 C ₁₃ H ₁₇ NO ₃ Mol. Wt.: 235.28

Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Aripiprazole 4 4 Dimer	Aripiprazole EP Impurity G ;Aripiprazole Dimer ;	1797986-18-5	C48H56Cl4N6O4	922.81	 C ₄₈ H ₅₆ Cl ₄ N ₆ O ₄ Mol. Wt.: 922.81
Aripiprazole Diquinoline	1,4-bis[(3,4-Dihydro-2(1H)-quinolinone-7-yl)oxy]-butane ;	882880-12-8	C22H24N2O4	380.44	 C ₂₂ H ₂₄ N ₂ O ₄ Mol. Wt.: 380.44
Aripiprazole N-Oxide	USP Aripiprazole Related Compound F; 7-[4-[4-(2,3-Dichlorophenyl)-1-oxido-1-piperazinyl]butoxy]-3,4-dihydro-2(1H)-quinolinone;	573691-09-5	C23H2Cl2N3O3	464.38	
ARMODAFINIL					
Armodafinil Sulfone	2-[(Diphenylmethyl)sulfonyl]acetamide ;	NA	C15H15NO3S	289.35	 C ₁₅ H ₁₅ NO ₃ S Mol. Wt.: 289.35
Armodafinil S-Isomer	NA	NA	C15H15NO2S	273.35	
ASPARTAM					
Aspartam Impurity C	Phenylalanine;L-Phenylalanine ; (S)-2-Amino-3-phenylpropionic acid;2-amino-3-phenylpropanoic acid	63-91-2	C9H11NO2	165.19	

Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Tetradehydro Asenapine	5-Chloro-2-methyl-2H-dibenz[2,3:6,7]oxepino[4,5-c]pyrrole; 5-Chloro-2-methyl-2H-dibenzo[2,3:6,7]oxepino[4,5-c]pyrrole	129385-60-0	C??H??ClNO	281.74	
ASPIRIN					
Aspirin Impurity A	4-hydroxybenzoic acid.	99-96-7	C7H6O3	138.12	
Aspirin Impurity B	4-Hydroxyisophthalic Acid; 4-Hydroxy-1,3-benzenedicarboxylic Acid; 4-Hydroxy-m-phthalic Acid; Eupirina; NSC 2445; USP Salicylic Acid Related Compound B;	636-46-4	C8H6O5	182.13	
Aspirin Impurity C	Salicylic Acid; 2-Hydroxybenzoic Acid; 2-Carboxyphenol; 2-Hydroxybenzenecarboxylic Acid; 2-Hydroxybenzoic Acid; o-Carboxyphenol; o-Hydroxybenzoic Acid; Rutranex; Saligel; Salonil; Salvona Nanosal; Stri-Dex; Trans-Ver-Sal; Verrugon;	69-72-7	C7H6O3	138.12	
Aspirin Impurity E	Salsalate; Aspirin Impurity E, 2-Hydroxybenzoic Acid 2-Carboxyphenyl Ester; Salicylic Acid Salicylate; 2-Hydroxybenzoic Acid 2-Carboxyphenyl Ester; Diacesal; Diplosal; Disalcid; Disalgesic; Disalicylic Acid; Disalyl; Mono-Gesic; NSC 49171; Nobacid; Salflex; Salical; Salicyl Salicylate; Salicyloxysalicylic Acid; Salicyloylsalicylic Acid; Salicylsal	552-94-3	C14H10O5	258.23	
Aspirin Impurity D	Acetylsalicylsalicylic Acid; 2-(Acetyloxy)benzoic Acid 2-Carboxyphenyl Ester; Acesalum; Diplosal Acetate; Diplosalacetat; Salicylacetylsalicylic Acid;	530-75-6	C16H12O6	300.27	

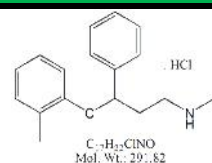
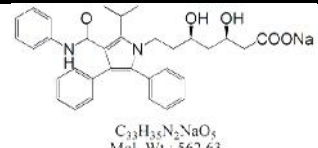
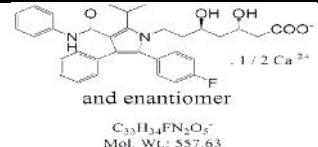
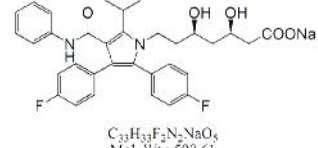
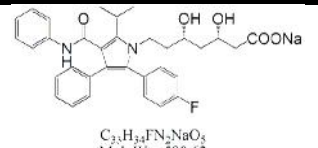
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Aspirin Impurity F	Acetylsalicylic Anhydride; Aspirin Impurity F, 2-(Acetyloxy)benzoic Acid 1,1-dianhydride; Salicylic Acid Acetate Anhydride; 2-Acetoxybenzoic Anhydride; Aspirin anhydride; Contraflu; NSC 63848; NSC 80056; Pircan; Vigal; Acetylsalicylic Acid Impurity D;	1466-82-6	C ₁₈ H ₁₄ O ₇	342.3	
ATENOLOL					
Atenolol EP Impurity H	Atenolol USP RC B ; 2-[4-[(2RS)-2-hydroxy-3-[(1-methylethyl)amino]propoxy]phenyl]acetonitrile ;	NA	C ₁₄ H ₂₀ N ₂ O ₂	248.32	 C ₁₄ H ₂₀ N ₂ O ₂ Mol. Wt.: 248.32
Atenolol EP Impurity I	Atenolol Desmethyl Impurity ; Atenolol Ethylamino Analog ; 2-(4-(3-(Ethylamino)-2-hydroxypropoxy)phenyl)acetamide ;	1797116-92-7	C ₁₃ H ₂₀ N ₂ O ₃	252.31	 C ₁₃ H ₂₀ N ₂ O ₃ Mol. Wt.: 252.31
ATOMOXETINE					
Atomoxetine EP Impurity A	Atomoxetine EP Impurity A ; N-Methyl-3-phenoxy-3-phenylpropan-1-amine hydrochloride	873310-33-9	C ₁₆ H ₂₀ ClNO	277.79	 C ₁₆ H ₂₀ ClNO Mol. Wt.: 277.79
Atomoxetine EP Impurity B	Atomoxetine S-Isomer; Atomoxetine EP Impurity B ; (S)-Atomoxetine HCl ; (3S)-N-Methyl-3-(2-methylphenoxy)-3-phenylpropan-1-amine hydrochloride ;	82857-39-4	C ₁₇ H ₂₂ ClNO	291.82	 C ₁₇ H ₂₂ ClNO Mol. Wt.: 291.82

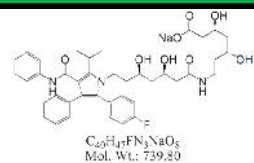
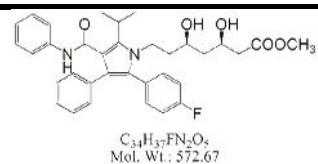
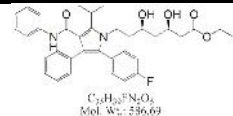

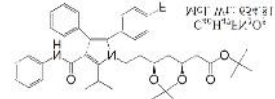
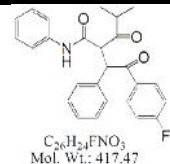
Impurity Catalogue

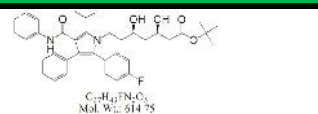
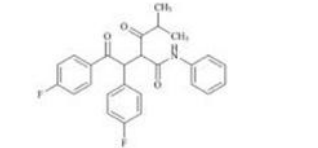
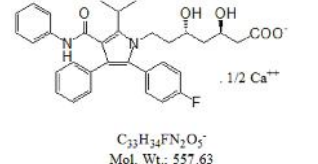
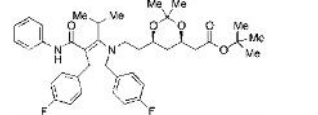
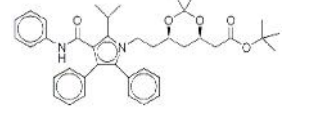
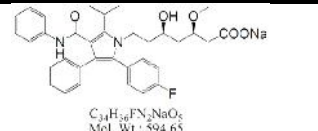
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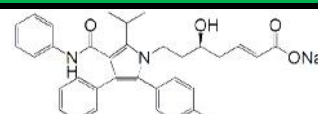
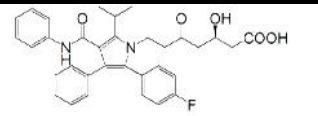
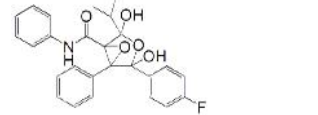
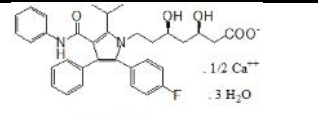
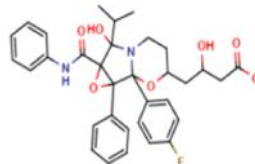


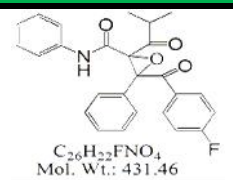
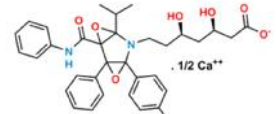
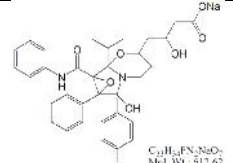
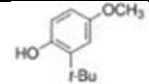
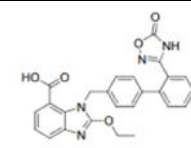
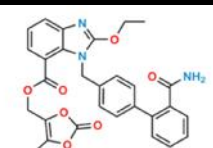
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Atomoxetine EP Impurity C	Atomoxetine EP Impurity C ; Atomoxetine USP RC C ; p-Methyl Atomoxetine HCl ; (3R)-N-Methyl-3-(4-methylphenoxy)-3-phenylpropan-1-amine hydrochloride	873310-31-7	C ₁₇ H ₂₂ ClNO	291.82	<p>C₁₇H₂₂ClNO Mol. Wt.: 291.82</p>
Atomoxetine EP Impurity D	Atomoxetine EP Impurity D ; Atomoxetine USP RC B ; m-Methyl Atomoxetine HCl ; (3R)-N-Methyl-3-(3-methylphenoxy)-3-phenylpropan-1-amine hydrochloride.	873310-28-2	C ₁₇ H ₂₂ ClNO	291.82	<p>C₁₇H₂₂ClNO Mol. Wt.: 291.82</p>
Atomoxetine EP Impurity E	Atomoxetine EP Impurity E ; L-Mandelic Acid ; (S)-(+)-Mandelic Acid ; (2S)-2-Hydroxy-2-phenylacetic acid.	17199-29-0	C ₈ H ₈ O ₃	152.15	<p>C₈H₈O₃ Mol. Wt.: 152.15</p>
Atomoxetine EP Impurity H	Atomoxetine EP Impurity H ; Atomoxetine USP RC A ; 3-(Methylamino)-1-phenylpropan-1-ol	115290-81-8	C ₁₀ H ₁₅ NO	165.23	<p>C₁₀H₁₅NO Mol. Wt.: 165.23</p>
Atomoxetine Related Compound B	Atomoxetine Related Compound B (10 mg) (N-Methyl-3-phenyl-3-(m-tolyloxy)propan-1-amine hydrochloride);M-Methyl AtOMoxetine Hydrochloride;AtoMoxetine Related CoMpound B;N-Methyl-gamma-(3-methylphenoxy)benzenepropanamine hydrochloride;Atomoxetine EP Impurity D	873310-28-2	C ₁₇ H ₂₂ ClNO	291.82	<p>C₁₇H₂₂ClNO Mol. Wt.: 291.82</p>
Atomoxetine N-Desmethyl	N-Desmethyl Atomoxetine Hydrochloride ; (3RS)-3-(2-Methylphenoxy)-3-phenylpropan-1-amine hydrochloride ;	881995-46-6	C ₁₆ H ₂₀ ClNO	277.79	<p>C₁₆H₂₀ClNO Mol. Wt.: 277.79</p>

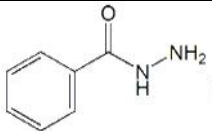
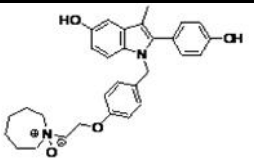
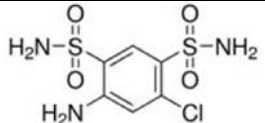
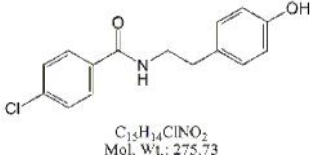
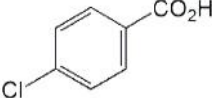
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Atomoxetine HCl Racemate	(3RS)-N-Methyl-3-(2-methylphenoxy)-3-phenylpropan-1-amine hydrochloride ;	82857-40-7	C ₁₇ H ₂₂ ClNO	291.82	 <p>C₁₇H₂₂ClNO Mol. Wt.: 291.82</p>
ATORVASTATIN					
Atorvastatin EP Impurity A	Atorvastatin EP Impurity A (Sodium Salt) ; Atorvastatin USP Related Compound A ; Desfluoro Atorvastatin Sodium ; (3R,5R)-7-[3-(Phenylcarbamoyl)-5-phenyl-2-isopropyl-4-phenyl-1H-pyrrol-1-yl]-3,5-dihydroxyheptanoic acid sodium salt.	433289-83-9	C ₃₃ H ₃₅ N ₂ NaO ₅	562.63	 <p>C₃₃H₃₅N₂NaO₅ Mol. Wt.: 562.63</p>
Atorvastatin EP Impurity B	Atorvastatin EP Impurity B (Calcium Salt) ; (3RS,5SR)-Atorvastatin Calcium ; (3RS,5SR)-7-[3-(Phenylcarbamoyl)-5-(4-fluorophenyl)-2-isopropyl-4-phenyl-1H-pyrrol-1-yl]-3,5-dihydroxyheptanoic acid calcium salt.	NA	C ₃₃ H ₃₄ FN ₂ O ₅	557.63	 <p>C₃₃H₃₄FN₂O₅ Mol. Wt.: 557.63 and enantiomer</p>
Atorvastatin EP Impurity C	Atorvastatin EP Impurity C ; Atorvastatin USP Related Compound C ; Fluoro Atorvastatin Sodium ; Atorvastatin Difluoro Analog ; (3R,5R)-7-[3-(Phenylcarbamoyl)-4,5-bis(4-fluorophenyl)-2-isopropyl-1H-pyrrol-1-yl]-3,5-dihydroxyheptanoic acid sodium salt.	693793-53-2	C ₃₃ H ₃₃ F ₂ N ₂ NaO ₅	598.61	 <p>C₃₃H₃₃F₂N₂NaO₅ Mol. Wt.: 598.61</p>
Atorvastatin EP Impurity E	Atorvastatin USP RC E ; ent-Atorvastatin Sodium ; (3S, 5S)-Atorvastatin Sodium ; (3S,5S)-7-[3-(Phenylcarbamoyl)-5-(4-fluorophenyl)-2-isopropyl-4-phenyl-1H-pyrrol-1-yl]-3,5-dihydroxyheptanoic acid sodium salt	501121-34-2	C ₃₃ H ₃₄ FN ₂ NaO ₅	580.24	 <p>C₃₃H₃₄FN₂NaO₅ Mol. Wt.: 580.62</p>

Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Atorvastatin EP Impurity F	Atorvastatin EP Impurity F ; Atorvastatin USP Related Compound F ; Atorvastatin Amide Impurity ; Atorvastatin Amide Acid Sodium Salt ; Atorvastatin Di-Amide Acid Sodium Salt ; Atorvastatin Diamino Impurity Sodium Salt ; (3R,5R)-7-[[[(3R,5R)-7-[2-(4-Fluorophenyl)-5-(1-methylethyl)-3-phenyl-4-[(phenylamino)carbonyl]-1H-pyrrol-1-yl]-3,5-dihydro	887196-24-9 (acid) ; 1105067-87-5	C ₄₀ H ₄₇ FN ₃ NaO ₈	739.80	 C ₄₀ H ₄₇ FN ₃ NaO ₈ Mol. Wt.: 739.80
Atorvastatin Acid Methyl Ester	(3R,5R)-7-[3-(Phenylcarbamoyl)-5-(4-fluorophenyl)-2-isopropyl-4-phenyl-1H-pyrrol-1-yl]-3,5-dihydroxyheptanoic acid methyl ester.	345891-62-5	C ₃₄ H ₃₇ FN ₂ O ₅	572.67	 C ₃₄ H ₃₇ FN ₂ O ₅ Mol. Wt.: 572.67
Atorvastatin Acid Ethyl Ester	(3R,5R)-7-[3-(Phenylcarbamoyl)-5-(4-fluorophenyl)-2-isopropyl-4-phenyl-1H-pyrrol-1-yl]-3,5-dihydroxyheptanoic acid ethyl ester.	1146977-93-6	C ₃₅ H ₃₉ FN ₂ O ₅	586.69	 C ₃₅ H ₃₉ FN ₂ O ₅ Mol. Wt.: 586.69
Atorvastatin EP Impurity H	Atorvastatin EP Impurity H ; Atorvastatin USP Related Compound H ; Atorvastatin Lactone ; PD-130694 ;5-(4-Fluorophenyl)-2-(1-methylethyl)-N,4-diphenyl-1-[2-[(2R,4R)-tetrahydro-4-hydroxy-6-oxo-2H-pyran-2-yl]ethyl]-1H-pyrrole-3-carboxamide.	125995-03-1	C ₃₃ H ₃₃ FN ₂ O ₄	540.62	 C ₃₃ H ₃₃ FN ₂ O ₄ Mol. Wt.: 540.62
Atorvastatin EP Impurity I	(4R,6R)-6-[2-[2-(4-Fluorophenyl)-5-(1-methylethyl)-3-phenyl-4-[(phenylamino)carbonyl]-1H-pyrrol-1-yl]ethyl]-2,2-dimethyl-1,3-dioxane-4-acetic acid t-butyl ester .	125971-95-1	C ₄₀ H ₄₇ FN ₂ O ₅	654.81	 C ₄₀ H ₄₇ FN ₂ O ₅ Mol. Wt.: 654.81
Atorvastatin Diketo Amide	2-(2-(4-Fluorophenyl)-2-oxo-1-phenylethyl)-4-methyl-3-oxo-N-phenyl pentanamide .	125971-96-2	C ₂₆ H ₂₄ FN ₃ O ₃	417.47	 C ₂₆ H ₂₄ FN ₃ O ₃ Mol. Wt.: 417.47

Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Atorvastatin Acid T-Butyl Ester	(3R,5R)-7-[3-(Phenylcarbamoyl)-5-(4-fluorophenyl)-2-isopropyl-4-phenyl-1H-pyrrol-1-yl]-3,5-dihydroxyheptanoic acid t-butyl ester	134395-00-9	C ₃₇ H ₄₃ FN ₂ O ₅	614.75	 C ₃₇ H ₄₃ FN ₂ O ₅ Mol. Wt.: 614.75
Atorvastatin Impurity	NA	693793-82-7	C ₂₆ H ₂₃ F ₂ N ₂ O ₃	435.47	
Atorvastatin (3R,5S)-Isomer	(3R,5S)-7-[3-(Phenylcarbamoyl)-5-(4-fluorophenyl)-2-isopropyl-4-phenyl-1H-pyrrol-1-yl]-3,5-dihydroxyheptanoic acid calcium salt	131275-93-9	C ₃₃ H ₃₄ FN ₂ O ₅	557.63	 C ₃₃ H ₃₄ FN ₂ O ₅ Mol. Wt.: 557.63
Difluoro Atorvastatin	(4R,6R)-6-[2-[2,3-Bis(4-fluorophenyl)-5-(1-methylethyl)-4-[(phenylamino)carbonyl]-1H-pyrrol-1-yl]ethyl]-2,2-dimethyl-1,3-Dioxane-4-acetic Acid 1,1-Dimethylethyl Ester.	693793-87-2	C ₄₀ H ₄₆ F ₂ N ₂ O ₅	672.8	
Defluoro Atorvastatin Acetonide Tert-Butyl Ester	Defluoro Atorvastatin Acetonide tert-Butyl Ester;(4R,6R)-2,2-Dimethyl-6-[2-[2-(1-Methylethyl)-4,5-diphenyl-3-[(phenylamino)carbonyl]-1H-pyrrol-1-yl]ethyl]-1,3-dioxane-4-acetic Acid 1,1-Dimethylethyl Ester.	1105067-91-1	C ₄₀ H ₄₈ N ₂ O ₅	636.82	
Atorvastatin EP Impurity G	(3R,5R)-7-[3-(Phenylcarbamoyl)-5-(4-fluorophenyl)-2-isopropyl-4-phenyl-1H-pyrrol-1-yl]-5-hydroxy-3-methoxyheptanoic acid sodium salt .	887196-29-4	C ₃₄ H ₃₆ FN ₂ NaO ₅	594.65	 C ₃₄ H ₃₆ FN ₂ NaO ₅ Mol. Wt.: 594.65

Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Atorvastatin 3-Deoxy	Atorvastatin 3-Deoxy-Hept-2-Enoic Acid (Sodium Salt) (USP) ; 2,3-Anhydro Atorvastatin Sodium ; Dehydro Atorvastatin Acid Sodium Salt ; (S)-7-[2-(4-Fluorophenyl)-5-isopropyl-3-phenyl-4-(phenylcarbamoyl)-1H-pyrrol-1-yl]-5-hydroxyhept-2-enoic acid sodium salt ;	1105067-93-3	C33H32FN2NaO4	562.61	 <p>C₃₃H₃₂FN₂NaO₄ Mol. Wt.: 562.61</p>
Atorvastatin 5-Oxo Acid	(3R)-7-[3-(Phenylcarbamoyl)-5-(4-fluorophenyl)-2-isopropyl-4-phenyl-1H-pyrrol-1-yl]-3-hydroxy-5-oxo-heptanoic acid ;	1391052-82-6	C33H33FN2O5	556.62	 <p>C₃₃H₃₃FN₂O₅ Mol. Wt.: 556.62</p>
Atorvastatin Epoxy Tetrahydrofuran Analog	Atorvastatin Epoxy Tetrahydrofuran Analog (USP) ; Atorvastatin Dihydroxy Epoxy Impurity ; Atorvastatin Photo Degradation Product - ATV-FXA2 ; 4-(4-Fluorophenyl)-2,4-dihydroxy-2-isopropyl-N,5-diphenyl-3,6-dioxabicyclo [3.1.0]hexane-1-carboxamide ;	873950-19-7	C26H24FNO5	449.47	 <p>C₂₆H₂₄FNO₅ Mol. Wt.: 449.47</p>
Atorvastatin Calcium Trihydrate	(3R,5R)-7-[3-(Phenylcarbamoyl)-5-(4-fluorophenyl)-2-isopropyl-4-phenyl-1H-pyrrol-1-yl]-3,5-dihydroxyheptanoic acid calcium salt trihydrate ;	134523-03-8	C33H34FN2O5	557.63	 <p>C₃₃H₃₄FN₂O₅ Mol. Wt.: 557.63</p>
Atorvastatin Cyclic	4-(1b-(4-fluorophenyl)-7-hydroxy-7-isopropyl-1a-phenyl-7a-(phenylcarbamoyl)hexahydro-1aH-oxireno[2',3':3,4]pyrrolo[2,1-b][1,3]oxazin-3-yl)-3-hydroxybutanoic acid; 1b-(4-Fluorophenyl)hexahydro-?,7-dihydroxy-7-(1-methylethyl)-1a-phenyl-7a-[(phenylamino)carbonyl]-3H-oxireno[3,4]pyrrolo[2,1-b][1,3]oxazine-3-butanoic Acid; ATV-cyclo FP; ATV-FX1	1315629-79-8	C33H35FN2O7	590.64	

Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Atorvastatin EP Impurity D	Atorvastatin EP Impurity D ; Atorvastatin USP Related Compound D ; Atorvastatin Diketo Epoxide Impurity ; Atorvastatin Degradation Product - ATV-FXA1 ; 3-(4-Fluorobenzoyl)-2-isobutyryl-3-phenyloxirane-2-carboxylic acid phenylamide ;	148146-51-4	C ₂₆ H ₂₂ FNO ₄	431.46	 C ₂₆ H ₂₂ FNO ₄ Mol. Wt.: 431.46
Atorvastatin Diepoxide Calcium Salt	7-[N-Phenyl-2-[4-(4-fluorophenyl)-6-methylethyl]-3,7-dioxo-5-azatricyclo [4.1.0.02,4]-4-[(phenylamino)carboxamido]- (3R,5R)-3,5-dihydroxyheptanoic acid calcium salt	887470-43-1	C ₃₃ H ₃₄ FN ₂ O ₇	589.63	 .1/2 Ca ⁺⁺
Atorvastatin Cyclic Sodium Salt (Isopropyl) Impurity	(4S)-4-Cyclohexyl-1-[(RS)-1-hydroxy-2-methylpropoxy](4-phenylbutyl) phosphinyl]-acetyl-L-proline propionate (ester), sodium salt ;	1316291-19-6	C ₃₃ H ₃₄ FN ₂ NaO ₇	612.62	 C ₃₃ H ₃₄ FN ₂ NaO ₇ Mol. Wt. 612.62
Atorvastatin BHA Impurity	2-tert-Butyl-4-methoxyphenol	121-00-6	C ₁₁ H ₁₆ O ₂	180.24	
AZILSARTAN					
Azilsartan Impurity-1	2-ethoxy-1-((2,5-dimethyl-5-oxo-4,5-dihydro-1,2,4-oxadiazol-3-yl)-[1,1'-biphenyl]-4-yl)methyl)-1H-benzo[d]imidazole-7-carboxylic acid	147403-03-0	C ₂₅ H ₂₀ N ₄ O ₅	456.45	
Azilsartan Impurity-5	Azilsartan Impurity Q; (5-methyl-2-oxo-1,3-dioxol-4-yl)methyl 1-((2'-carbamoyl-[1,1'-biphenyl]-4-yl)methyl)-2-ethoxy-1H-benzo[d]imidazole-7-carboxylate	NA	C ₂₉ H ₂₅ N ₃ O ₇	527.54	
Azelastine EP	Benzohydrazide ; Benzoyldiazane ;	613-94-5	C ₇ H ₈ N ₂ O	136.1	

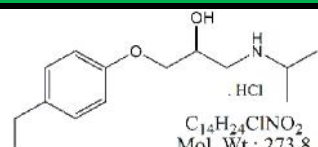
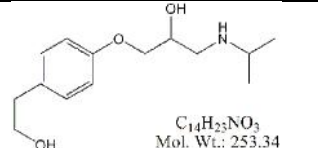
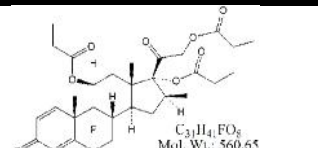
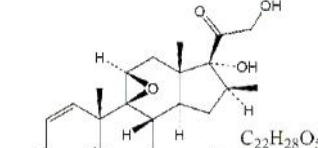
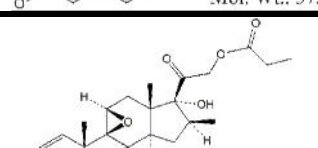
	Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
	Impurity A				5	 $C_7H_8N_2O$ Mol. Wt.: 136.15
BAZEDOXIFENE						
B	Bazedoxifene N-Oxide	1-[[4-[2-(Hexahydro-1-oxido-1H-azepin-1-yl)ethoxy]phenyl]methyl]-2-(4-hydroxyphenyl)-3-methyl-1H-indol-5-ol;	1174289-22-5	C??H??N?O?	486.6	
	Benzothiadiazine USP RC A	3-Chloroaniline-4,6-disulfonamide, 4-Amino-6-chlorobenzene-1,3-disulfonamide	121-30-2	C6H8ClN3O4S2	285.73	
BEZAFIBRATE						
	Bezafibrate Impurity A	4-Chloro-N-[2-(4-hydroxyphenyl)ethyl]benzamide ; N-(4-Chlorobenzoyl)tyramine ;	41859-57-8	C15H14ClNO2	275.73	 $C_{15}H_{14}ClNO_2$ Mol. Wt.: 275.73
	Bezafibrate EP Impurity B	4-Chlorobenzoic acid	74-11-3	C7H5ClO2	156.57	 $C_7H_5ClO_2$ Mol. Wt.: 156.57

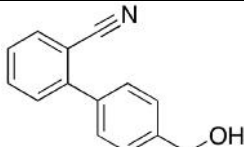
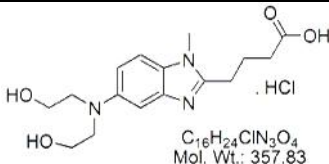
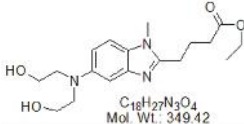
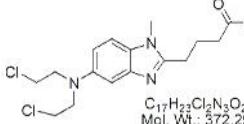
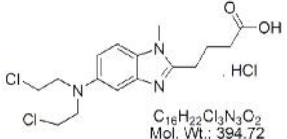
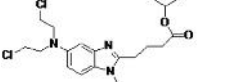
Impurity Catalogue

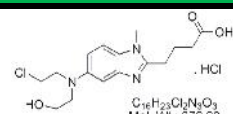
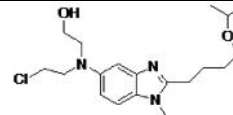
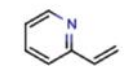
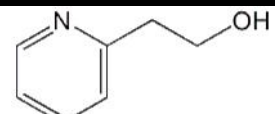
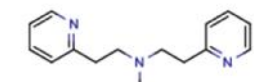
Venkatasai Life Sciences

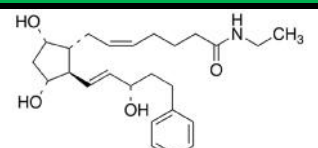
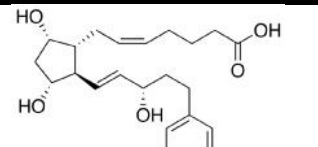
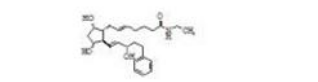
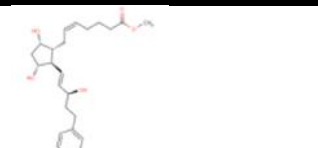
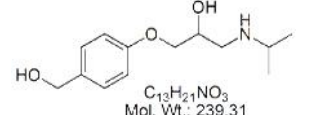
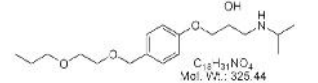


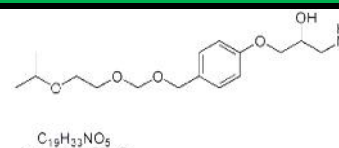
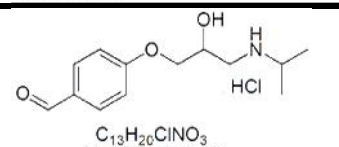
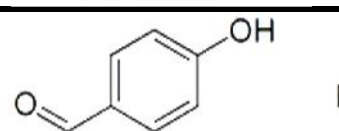
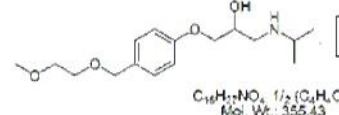
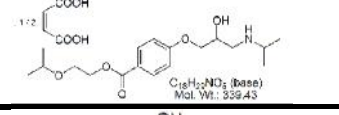
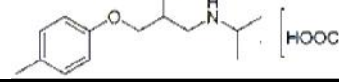

Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Bezafibrate Impurity C	Methyl 2-[4-[2-[(4-Chlorobenzoyl)amino]ethyl]phenoxy]-2-methylpropanoate ;	NA	C ₂₀ H ₂₂ ClNO ₄	375.85	 C ₂₀ H ₂₂ ClNO ₄ Mol. Wt.: 375.85
Bezafibrate EP Impurity D	Ethyl 2-[4-[2-[(4-Chlorobenzoyl)amino]ethyl]phenoxy]-2-methylpropanoate ;	41859-58-9	C ₂₁ H ₂₄ ClNO ₄	389.87	 C ₂₁ H ₂₄ ClNO ₄ Mol. Wt.: 389.87
Bezafibrate EP Impurity E	Butyl 2-[4-[2-[(4-Chlorobenzoyl)amino]ethyl]phenoxy]-2-methylpropanoate ;	NA	C ₂₃ H ₂₈ ClNO ₄	417.93	 C ₂₃ H ₂₈ ClNO ₄ Mol. Wt.: 417.93
4-Hydroxy-1-Butanesulfonic Acid	Busulfan Impurity; NSC 71873; 4-Hydroxybutanesulfonic Acid;	26978-64-3	C ₄ H ₁₀ O ₄ S	154.18	
Bis(4-Sulfobutyl)Ether Disodium	4,4'-Oxybis-1-butanesulfonic Acid Disodium Salt; WAS-18;	183278-30-0	C ₈ H ₁₆ Na ₂ O ₇ S ₂	334.32	
BENDROFLUMETHIAZIDE					
Bendroflumethiazide Impurity A	4-amino-6-(trifluoromethyl)benzene-1,3-disulphonamide.	654-62-6	C ₇ H ₈ F ₃ N ₃ O ₄ S ₂	318.28	
BETAXOLOL					

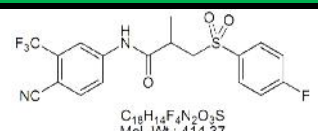
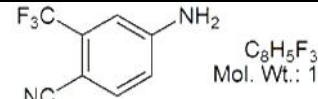
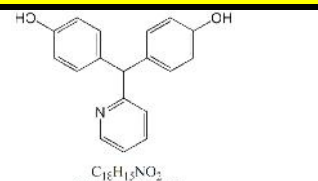
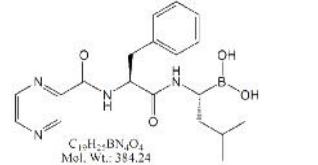
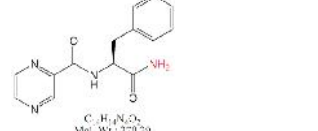
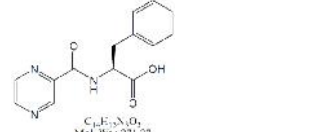
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Betaxolol EP Impurity A	(2RS)-1-(4-Ethylphenoxy)-3-[(1-methylethyl)amino] propan-2-ol hydrochloride;	464877-45-0 (HCl)	C ₁₄ H ₂₄ ClNO ₂	273.8	 C ₁₄ H ₂₄ ClNO ₂ Mol. Wt.: 273.8
Betaxolol EP Impurity B	(2RS)-1-[4-(2-Hydroxyethyl)phenoxy]-3-[(1-methylethyl)amino]propan-2-ol ;	62572-94-5	C ₁₄ H ₂₃ NO ₃	253.34	 C ₁₄ H ₂₃ NO ₃ Mol. Wt.: 253.34
BECLOMETASONE					
Beclometasone Dipropionate EP Impurity G	9-Fluoro-16?-methyl-3,20-dioxopregna-1,4-diene-11?,17,21-triyl tripropanoate ;	1186048-33-8	C ₃₁ H ₄₁ FO ₈	560.65	 C ₃₁ H ₄₁ FO ₈ Mol. Wt.: 560.65
Beclometasone Dipropionate EP Impurity R	9,11?-Epoxy-17,21-dihydroxy-16?-methyl-9?-pregna-1,4-diene-3,20-dione ;	981-34-0	C ₂₂ H ₂₈ O ₅	372.45	 C ₂₂ H ₂₈ O ₅ Mol. Wt.: 372.45
Beclometasone Dipropionate EP Impurity V	9,11?-Epoxy-17-hydroxy-16?-methyl-3,20-dioxo-9?-pregna-1,4-dien-21-yl propanoate ;	205105-83-5	C ₂₅ H ₃₂ O ₆	428.52	 C ₂₅ H ₃₂ O ₆ Mol. Wt.: 428.52

Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Benzonitrile Impurity 1	(Hydroxymethyl)-2-cyanobiphenyl; 4-Hydroxymethyl-2-cyano-1,1'-biphenyl	154709-19-0	C ₁₄ H ₁₁ NO	209.24	
BENDAMUSTINE					
Bendamustine USP RCA	Bendamustine Dihydroxy Impurity ; 4-[5-[Bis(2-hydroxyethyl)amino]-1-methylbenzimidazol-2-yl]butanoic acid HCl ;	109882-30-6	C ₁₆ H ₂₃ N ₃ O ₄	321.37	 C ₁₆ H ₂₄ ClN ₃ O ₄ Mol. Wt.: 357.83
Bendamustine USP RCC	Bendamustine Dihydroxy Acid Ethyl Ester ; 4-(5-(Bis(2-hydroxyethyl)amino)-1-methyl-1H-benzo[d]imidazol-2-yl)butanoic acid ethyl ester ;	3543-74-6	C ₁₈ H ₂₇ N ₃ O ₄	349.42	 C ₁₈ H ₂₇ N ₃ O ₄ Mol. Wt.: 349.42
Bendamustine Methyl Ester	4-[5-[Bis(2-chloroethyl)amino]-1-methylbenzimidazol-2-yl]butanoic acid methyl ester ;	NA	C ₁₇ H ₂₃ Cl ₂ N ₃ O ₂	372.29	 C ₁₇ H ₂₃ Cl ₂ N ₃ O ₂ Mol. Wt.: 372.29
Bendamustine HCl	Bendamustine Hydrochloride ; 4-[5-[Bis(2-chloroethyl)amino]-1-methylbenzimidazol-2-yl]butanoic acid hydrochloride ;	3543-75-7	C ₁₆ H ₂₂ Cl ₃ N ₃ O ₂	394.72	 C ₁₆ H ₂₂ Cl ₃ N ₃ O ₂ Mol. Wt.: 394.72
Bendamustine Ben-2A	4-{5-[Bis-(2-Chloro-ethyl)-amino]-1-methyl-1H-benzoimidazol-2-yl}-butyric acid isopropyl ester	NA	C ₁₉ H ₂₇ Cl ₂ N ₃ O ₂	400.34	

Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Bendamustine USP RC E	Hydroxy Bendamustine HCl ; 5-[(2-Chloroethyl)(2-hydroxyethyl)amino]-1-methyl-1H-benzimidazole-2-butanoic acid hydrochloride ;	109882-27-1	C16H22ClN3O3	339.82	 C ₁₆ H ₂₂ Cl ₂ N ₃ O ₃ Mol. Wt.: 376.28
Bendamustine HP-I	4-{5-[(2-Chloro-ethyl)-(2-hydroxy-ethyl)-amino]-1-methyl-1H-benzimidazol-2-yl}-butyric acid isopropyl ester	NA	C19H28ClN3O3	381.90	
BETAHISTINE					
Betahistine EP Impurity A	2-Vinylpyridine (stabilized with 0.1% 4-tert-butylcatechol); 2-Ethenylpyridine; 2-Pyridylethylene; NSC 18255; ?-Vinylpyridine; Betahistine Impurity A;	100-69-6	C7H7N	105.14	
Betahistine EP Impurity B	2-Pyridineethanol; 2-(2-Hydroxyethyl)pyridine; 2-(2-Pyridinyl)ethanol; 2-(2-Pyridyl)ethanol; 2-(2-Pyridyl)ethyl alcohol; 2-(?-Pyridyl)ethanol; 2-(?-Hydroxyethyl)pyridine; 2-Pyridylethanol; NSC 2144; NSC 77979; ?-(2-Pyridyl)ethanol; Betahistine Impurity B;	103-74-2	C7H9NO	123.16	 C ₇ H ₉ NO Mol. Wt.: 123.15
Betahistine EP Impurity C	N-methyl-2(pyridine-2-yl)-[2-pyridine-2-yl]ethanamine trihydrochloride; N-Methyl-N-[2-(2-pyridinyl)ethyl]-2-pyridineethanamine; Methylbis(2-pyridylethyl)amine; N-Methylbis[2-(2-pyridylethyl)]amine; lethyl)amin.	5452-87-9	C15H19N3	241.33	
BIMATOPROST					

Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Bimatoprost	(5Z)-7-[(1R,2R,3R,5S)-3,5-Dihydroxy-2-[(1E,3S)-3-hydroxy-5-phenyl-1-penten-1-yl]cyclopentyl]-N-ethyl-5-heptenamide; AGN-192024; Lumigan; Prostaglandin; Prostaglandin; Prostaglandin; Prostaglandin;	155206-00-1	C ₂₅ H ₃₇ NO ₄	415.57	
Bimatoprost Acid	(5Z)-7-[(1R,2R,3R,5S)-3,5-Dihydroxy-2-[(1E,3S)-3-hydroxy-5-phenyl-1-penten-1-yl]cyclopentyl]-5-heptenoic Acid; 17-Phenyl-18,19,20-trinor-PGF ₂ ?; PhXA 70; (5Z)-7-[(1R,2R,3R,5S)-3,5-dihydroxy-2-[(1E,3S)-3-hydroxy-5-phenyl-1-pentenyl]cyclopentyl]-5-heptenoic Acid; 17-Phenyl-18,19,20-trinorprostaglandin F ₂ ?; U 35687; [1R-[1?(Z),2?(1E,3S*),3?,5?]]-7-[3,5	38344-08-0	C ₂₃ H ₃₂ O ₅	388.5	
Trans Bimatoprost	(E)-7-[(1R,2R,3R,5S)-3,5-dihydroxy-2-[(3S)-3-hydroxy-5-phenylpent-1-enyl]cyclopentyl]-N-ethylhept-5-enamide;(5E)-Bimatoprost.	1163135-95-2	C ₂₅ H ₃₇ NO ₄	415.56	
Bimatoprost Acid Methyl Ester	(5Z)-7-[(1R,2R,3R,5S)-3,5-Dihydroxy-2-[(1E,3S)-3-hydroxy-5-phenyl-1-penten-1-yl] Ester.	38315-47-8	C ₂₄ H ₃₄ O ₅	402.52	
BISOPROLOL					
Bisoprolol EP Impurity A	Bisoprolol EP Impurity A ; (RS)-1-(4-Hydroxymethylphenoxy)-3-isopropylaminopropan-2-ol ;	62572-93-4	C ₁₃ H ₂₁ NO ₃	239.31	 C ₁₃ H ₂₁ NO ₃ Mol. Wt.: 239.31
Bisoprolol EP Impurity B	Bisoprolol EP Impurity B ; Bisoprolol Propyl Analog ; (RS)-1-Isopropylamino-3-[4-(2-propoxyethoxymethyl) phenoxy] propan-2-ol ;	1447715-44-7	C ₁₈ H ₃₁ NO ₄	325.44	 C ₁₈ H ₃₁ NO ₄ Mol. Wt.: 325.44

Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Bisoprolol EP Impurity G	(2RS)-1-[4-(((2-Isopropoxyethoxy)methoxy)methyl)phenoxy]-3- (isopropyl-amino)-2-propanol ;	1215342-36-1	C ₁₉ H ₃₃ NO ₅	355.47	 C ₁₉ H ₃₃ NO ₅ Mol. Wt.: 355.47
Bisoprolol EP Impurity L	Bisoprolol EP Impurity L ; 4-(((2RS)-2-Hydroxy-3-(isopropylamino)-propyl)oxy)benzaldehyde hydrochloride ;	29122-74-5	C ₁₃ H ₂₀ ClNO ₃	273.76	 C ₁₃ H ₂₀ ClNO ₃ Mol. Wt.: 273.76
Bisoprolol EP Impurity S	Bisoprolol EP Impurity S ; 4-Hydroxybenzaldehyde ;	123-08-0	C ₇ H ₆ O ₂	122.12	 Mol. Wt.: 122.12
Bisoprolol EP Impurity Q	Bisoprolol EP Impurity Q ; (2RS)-1-Isopropylamino-3-[4-(2-methoxyethoxy)methyl]-phenoxy-2-propanol fumarate ;	1346604-00-9	C ₁₆ H ₂₇ NO ₄	297.39	 C ₁₆ H ₂₇ NO ₄ 1/2 (C ₄ H ₂ O ₄) Mol. Wt.: 355.43
Bisoprolol EP Impurity K	Bisoprolol EP Impurity K ; Bisoprolol Ester Impurity ; 2-Isopropoxyethyl 4-(((2RS)-2-Hydroxy-3-(isopropylamino)propyl)-oxy)benzoate fumarate ;	864544-37-6	C ₁₈ H ₂₉ NO ₅	339.43	 C ₁₈ H ₂₉ NO ₅ (base) Mol. Wt.: 339.43
Bisoprolol EP Impurity R	Bisoprolol EP Impurity R ; (2RS)-1-(Isopropylamino)-3-(4-methylphenoxy)propan-2-ol fumarate ;	5790-46-5	C ₁₃ H ₂₁ NO ₂	223.31	 [HOOC-]
BICALUTAMIDE					
Bicalutamide EP Impurity A	Desfluoro Bicalutamide ; (RS)-N-[4-Cyano-3-(trifluoromethyl)phenyl]-3-phenyl sulfonyl-2-hydroxy-2-methyl-propanamide ;	90357-05-4	C ₁₈ H ₁₅ F ₃ N ₂ O ₄ S	412.38	 C ₁₈ H ₁₅ F ₃ N ₂ O ₄ S Mol. Wt.: 412.38

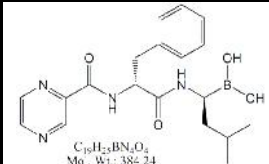
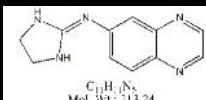

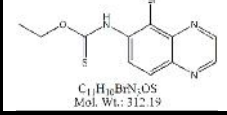
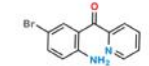
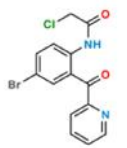
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Bicalutamide EP Impurity C	Bicalutamide Deshydroxy Impurity ; (RS)-N-[4-Cyano-3-(trifluoromethyl)phenyl]-3-[(4-fluorophenyl) sulfonyl]-2-methyl-propanamide ;	906008-94-4	C ₁₈ H ₁₄ F ₄ N ₂ O ₃ S	414.37	 <p>C₁₈H₁₄F₄N₂O₃S Mol. Wt.: 414.37</p>
Bicalutamide EP Impurity D	4-Amino-2-(trifluoromethyl)benzonitrile ;	654-70-6	C ₈ H ₅ F ₃ N ₂	186.13	 <p>C₈H₅F₃N₂ Mol. Wt.: 186.13</p>
BISACODYL					
Bisacodyl EP Impurity A	4,4'-(Pyridin-2-ylmethylene)diphenol ;	603-41-8	C ₁₈ H ₁₅ NO ₂	277.32	 <p>C₁₈H₁₅NO₂ Mol. Wt.: 277.32</p>
BORTEZOMIB					
Bortezomib	(1R, 2S)-Bortezomib ; [(1R)-3-Methyl-1-((2S)-3-phenyl-2-[(pyrazin-2-ylcarbonyl)amino]propanoyl)amino)butyl]boronic acid ;	179324-69-7	C ₁₉ H ₂₅ BN ₄ O ₄	384.24	 <p>C₁₉H₂₅BN₄O₄ Mol. Wt.: 384.24</p>
Bortezomib Impurity A	Bortezomib Amide Impurity ; (2S)-3-Phenyl-2-[(pyrazin-2-ylcarbonyl)amino]propanamide ;	289472-80-6	C ₁₄ H ₁₄ N ₄ O ₂	270.29	 <p>C₁₄H₁₄N₄O₂ Mol. Wt.: 270.29</p>
Bortezomib Impurity B	Bortezomib Acid Impurity ; (2S)-3-Phenyl-2-[(pyrazin-2-ylcarbonyl)amino]propanoic acid ; N-(2-Pyrazinyl carbonyl)-L-phenylalanine ;	114457-94-2	C ₁₄ H ₁₃ N ₃ O ₃	271.27	 <p>C₁₄H₁₃N₃O₃ Mol. Wt.: 271.27</p>

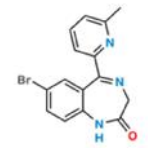

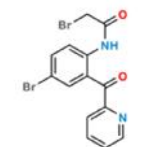
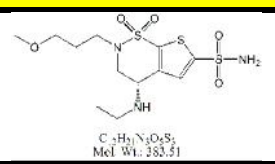
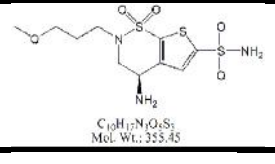
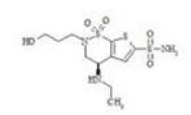
Impurity Catalogue

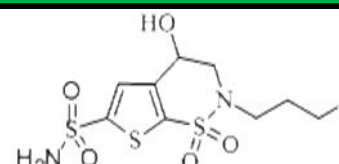
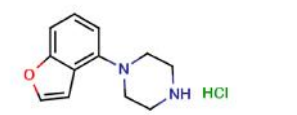
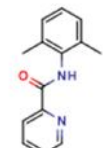
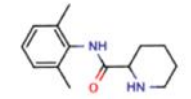
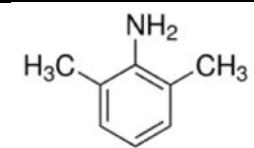
Venkatasai Life Sciences



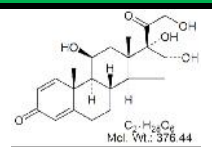
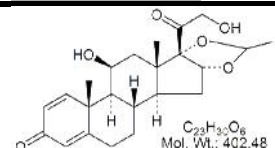
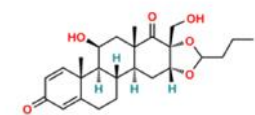
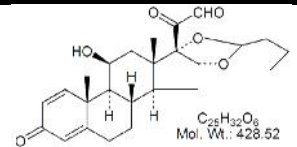
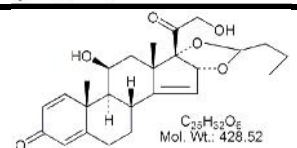
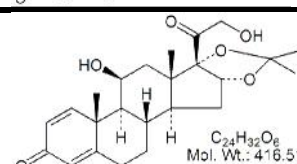
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Bortezomib Impurity C	1-[(2S)-1-oxo-3-phenyl-2-[(pyrazinylcarbonyl)amino]propyl]amino] pentylboronic acid.	NA	C ₁₉ H ₂₅ BN ₄ O ₄	384.25	
Bortezomib Impurity D	Bortezomib (1R, 2R)-Isomer ; [(1R)-3-Methyl-1-((2R)-3-phenyl-2-[(pyrazin-2-ylcarbonyl)amino]propanoyl) amino)butyl]boronic acid ;	1132709-15-9	C ₁₉ H ₂₅ BN ₄ O ₄	384.24	
Bortezomib Impurity E	(R)-Hydroxy Des(boric Acid) Bortezomib	289472-78-2	C ₁₉ H ₂₄ N ₄ O ₃	356.42	
Bortezomib Impurity F	Bortezomib Acid Methyl Ester ; (2S)-3-Phenyl-2-[(pyrazin-2-ylcarbonyl)amino]propanoic acid methyl ester ;	73058-37-4	C ₁₅ H ₁₅ N ₃ O ₃	285.3	
Bortezomib Impurity G	Bortezomib Hydroxy Impurity (1S, 2S)-Isomer ; N-[(2S)-1-((1S)-1-Hydroxy-3-methyl butyl]amino)-1-oxo-3-phenylpropan-2-yl]pyrazine-2-carboxamide ;	289472-81-7	C ₁₉ H ₂₄ N ₄ O ₃	356.42	
Bortezomib (1S, 2S)-Isomer	Bortezomib (1S, 2S)-Isomer ; [(1S)-3-Methyl-1-((2S)-3-phenyl-2-[(pyrazin-2-ylcarbonyl)amino]propanoyl) amino)butyl]boronic acid ;	1132709-14-8	C ₁₉ H ₂₅ BN ₄ O ₄	384.24	

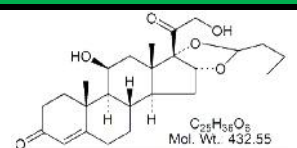
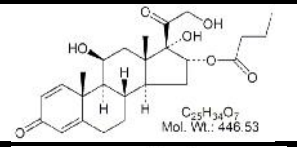
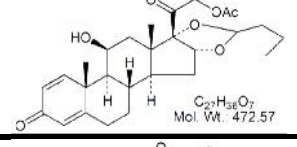
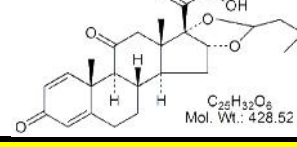
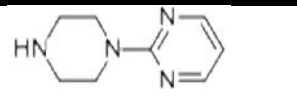
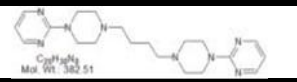
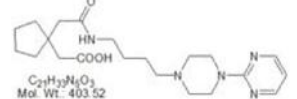
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Bortezomib (1S, 2R)-Isomer	Bortezomib (1S, 2R)-Isomer ; [(1S)-3-Methyl-1-((2R)-3-phenyl-2-[(pyrazin-2-ylcarbonyl)amino]propanoyl)amino)butyl]boronic acid ;	1132709-16-0	C ₁₉ H ₂₅ BN ₄ O ₄	384.24	 C ₁₉ H ₂₅ BN ₄ O ₄ Mo. Wt.: 384.24
BRIMONIDINE					
Brimonidine EP Impurity A	N-(Imidazolidin-2-ylidene)quinoxalin-6-amine ;	91147-43-2	C ₁₁ H ₁₁ N ₅	213.24	 C ₁₁ H ₁₁ N ₅ Mol. Wt.: 213.24
Brimonidine EP Impurity E	2-(5-Bromoquinoxalin-6-yl)guanidine HCl ;	168329-48-4 (base)	C ₉ H ₈ BrN ₅	266.10	 C ₉ H ₈ BrN ₅ Mol. Wt.: 266.10
Brimonidine Carbamothioate Impurity	O-Ethyl (5-Bromoquinoxalin-6-yl)carbamothioate ; (5-Bromo-6-quinoxaliny)carbamothioic acid O-ethyl ester ;	842138-75-4	C ₁₁ H ₁₀ BrN ₃ OS	312.19	 C ₁₁ H ₁₀ BrN ₃ OS Mol. Wt.: 312.19
BROMAZEPAM					
Bromazepam EP Impurity A	2-Amino-5-bromophenyl 2-pyridyl Ketone; 2-Amino-5-bromophenyl-2-pyridylmethanone.	1563-56-0	1563-56-0	277.1	
Bromazepam EP Impurity B	N-(4-Bromo-2-picolinoylphenyl)-2-chloroacetamide, 2-(2-Chloroacetamido-5-bromobenzoyl)pyridine; 2-[2-(2-Chloroacetamido)-5-bromobenzoyl]pyridine.	41526-21-0	C ₁₄ H ₁₀ BrClN ₂ O ₂	353.6	

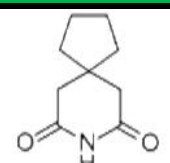
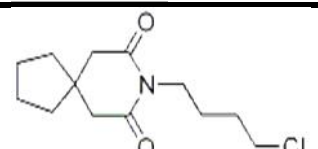
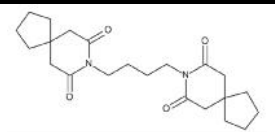
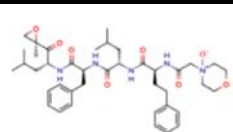
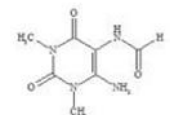
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Bromazepam EP Impurity C	6-Methyl bromazepam, 7-bromo-1,3-dihydro-5-(6-methyl-2-pyridinyl)-2H-1,4-benzodiazepin-2-one.	868350-97-4	C ₁₅ H ₁₂ BrN ₃ O	330.2	
Bromazepam EP Impurity D	3-Amino-6-bromo-4-(2-pyridinyl)-2(1H)-quinolinone, Bromazepam Impurity B	77616-97-8	C ₁₄ H ₁₀ BrN ₃ O	316.2	
Bromazepam EP Impurity E	2-Bromo-N-[4-bromo-2-(2-pyridinylcarbonyl)phenyl]-acetamide, 2,4-Dibromo-2-picolinoyl-acetanilide.	1694-64-0	C ₁₄ H ₁₀ Br ₂ N ₂ O ₂	398.05	
BRINZOLAMIDE					
Brinzolamide Impurity A	Brinzolamide USP RC A ;Brinzolamide (S)-Isomer ; (S)-4-(Ethylamino)-3,4-dihydro-2-(3-methoxypropyl)-2H-thieno[3,2-e]-1,2-thiazine-6-sulfonamide 1,1-Dioxide ;	154127-19-2	C ₁₂ H ₂₁ N ₃ O ₅ S ₃	383.51	 C ₁₂ H ₂₁ N ₃ O ₅ S ₃ Mol. Wt. 383.51
Brinzolamide Impurity B	Brinzolamide USP RC B ;Brinzolamide N-Desethyl Impurity ; (4R)-4-Amino-3,4-dihydro-2-(3-methoxypropyl)-2H-thieno[3,2-e]-1,2-thiazine-6-sulfonamide 1,1-Dioxide ;	404034-55-5	C ₁₀ H ₁₇ N ₃ O ₅ S ₃	355.45	 C ₁₀ H ₁₇ N ₃ O ₅ S ₃ Mol. Wt. 355.45
Brinzolamide Impurity C HBr	NA	186377-56-0	C ₁₁ H ₁₉ N ₃ O ₅ S ₃	369.48	



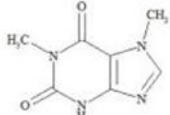
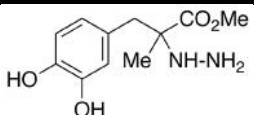
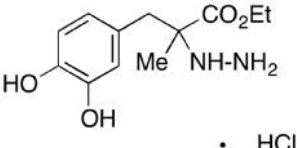
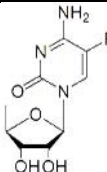
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Brinzolamide Impurity D	4-hydroxy-2-(3-methoxypropyl)-3,4-dihydro-2H-thieno[3,2-e][1,2]thiazine-6-sulfonamide 1,1-dioxide.	NA	C ₁₀ H ₁₆ N ₂ O ₆ S ₃	356.44	
BREXPIRAZOLE					
Brexpirazole Impurity 5	1-(1-benzofuran-4-yl)piperazine hydrochloride	105684-85-3	C ₁₂ H ₁₄ N ₂ O.	202.26	
BUPIVACAINE					
Bupivacaine EP Impurity A	N-(2,6-dimethylphenyl)pyridine-2-carboxamide;2',6'-Picolinoxylidide.	39627-98-0	C ₁₄ H ₁₄ N ₂ O	226.27	
Bupivacaine EP Impurity B	(RS)-N-(2,6-Dimethylphenyl)piperidine-2-carboxamide Hydrochloride;Bupivacaine Related Compound B.	15883-20-2	C ₁₄ H ₂₀ N ₂ O	232.32	
Bupivacaine Impurity F	2,6-Dimethylaniline, 2,6-Xylidine, 2-Amino-1,3-dimethylbenzene, 2-Amino-m-xylene.	87-62-7	(CH ₃) ₂ C ₆ H ₃ NH ₂	121.18	
BUPROPION					

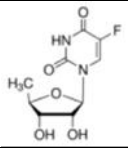
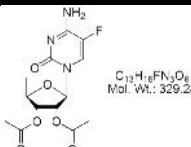
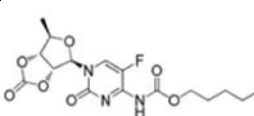
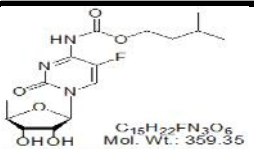
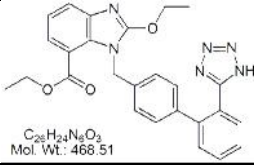
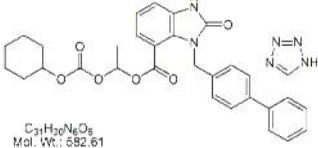
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Bupropion USP RC B	Bupropion USP Related Compound B (HCl Salt) ; 2-(tert-Butylamino)-3'-bromopropiophenone hydrochloride ; 2-(tert-Butylamino)-1-(3-bromophenyl)propan-1-one hydrochloride ;	1049718-43-5	C ₁₃ H ₁₉ BrClNO	320.65	 C ₁₃ H ₁₉ BrClNO Mol. Wt.: 320.65
Bupropion USP RC-C	USP Bupropion Related Compound C; Bupropion USP Related Compound C	152943-33-4	C ₉ H ₉ ClO	184.62	
Bupropion 2-Amino Impurity	2-amino-1-(3-chlorophenyl)propan-1-one.	119802-69-6	C ₉ H ₁₀ ClNO	183.63	
Bupropion USP RC-D	2-[(1,1-Dimethylethyl)amino]-1-phenyl-1-propanone Hydrochloride; 2-(tert-Butylamino)propiophenone Hydrochloride; Bupropion USP Related Compound D	63199-74-6	C ₁₃ H ₂₀ ClNO	241.76	
Bupropion Impurity 1	2-Bromo-1-(3-chlorophenyl)-1-propanone; ?-Bromo-3-chloropropiophenone;	34911-51-8	C ₉ H ₈ BrClO	247.52	
BUCLIZINE					
Buclizine Impurity A	1,4-Bis[(4-chlorophenyl)phenylmethyl]piperazine dihydrochloride	346451-15-8	C ₃₀ H ₃₀ Cl ₄ N ₂	560.38	
BUDESONIDE					

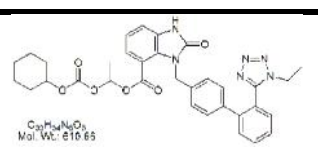
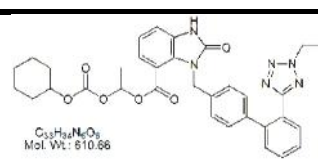
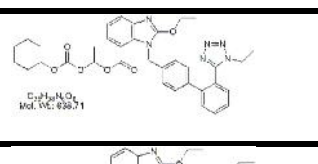
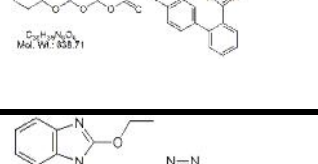
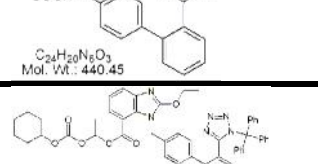

Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Budesonide Impurity A	11?,16?,17,21-Tetrahydroxypregna-1,4-diene-3,20-dione	13951-70-7	C ₂₁ H ₂₈ O ₆	376.44	
Budesonide Impurity B	16?,17-[(1RS)-Ethylidenebis(oxy)]-11?,21-dihydroxypregna-1,4-diene-3,20-dione ;	1040085-98-0	C ₂₃ H ₃₀ O ₆	402.48	
Budesonide EP Impurity C	16?,17-[(1RS)-Butylidenebis(oxy)]-11?-hydroxy-17-(hydroxymethyl)-D-homoandrosta-1,4-diene-3,17a-dione	1040085-99-1	C ₂₅ H ₃₄ O ₆	430.43	
Budesonide Impurity D	16?,17-[(1RS)-Butylidenebis(oxy)]-11?-hydroxy-3,20-dioxopregna-1,4-dien-21-aldehyde ;	85234-63-5	C ₂₅ H ₃₂ O ₆	428.52	
Budesonide Impurity E	16?,17-[(1RS)-Butylidenebis(oxy)]-11?,21-dihydroxypregna-1,4,14-triene-3,20-dione ;	131918-64-4	C ₂₅ H ₃₂ O ₆	428.52	
Budesonide Impurity F	16?,17-[1-Methylethylidenebis(oxy)]-11?,21-dihydroxypregna-1,4-diene-3,20-dione ;	638-94-8	C ₂₄ H ₃₂ O ₆	416.51	

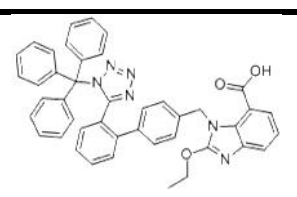

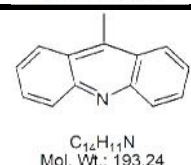
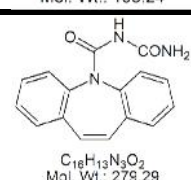
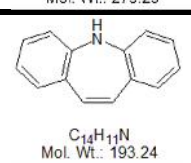
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Budesonide Impurity G	NA	137174-25-5	C ₂₅ H ₃₆ O ₆	432.55	 C ₂₅ H ₃₆ O ₆ Mol. Wt.: 432.55
Budesonide Impurity I	11?,17,21-Trihydroxy-3,20-dioxopregna-1,4-dien-16?-yl butanoate ;	113930-13-5	C ₂₅ H ₃₄ O ₇	446.53	 C ₂₅ H ₃₄ O ₇ Mol. Wt.: 446.53
Budesonide EP Impurity K	16?,17-[(1RS)-Butylidenebis(oxy)]-11?,21-dihydroxypregna-1,4-diene-3,20-dione-21-acetate ;	51333-05-2	C ₂₇ H ₃₆ O ₇	472.57	 C ₂₇ H ₃₆ O ₇ Mol. Wt.: 472.57
Budesonide Impurity L	16?,17-[(1RS)-Butylidenebis(oxy)]-21-hydroxypregna-1,4-diene-3,11,20-trione ;	216453-74-6	C ₂₅ H ₃₂ O ₆	428.52	 C ₂₅ H ₃₂ O ₆ Mol. Wt.: 428.52
BUSPIRONE					
Buspirone EP Impurity A	1-(2-Pyrimidinyl)piperazine; 2-Piperazinopyrimidine; 4-(2-Pyrimidinyl)piperazine; CM 56324H; MJ 13653; N-2-Pyrimidinylpiperazine; PmP; 1-PP; Buspirone EP Impurity A	20980-22-7	C ₈ H ₁₂ N ₄	164.21	
Buspirone EP Impurity C	2,2?-[Butane-1,4-diylbis(piperazine-1,4-diyl)]dipyrimidine ;	257877-45-5	C ₂₀ H ₃₀ N ₈	382.51	 C ₂₀ H ₃₀ N ₈ Mol. Wt.: 382.51
Buspirone EP Impurity E	[1-[2-Oxo-2-[[4-[4-(pyrimidin-2-yl)piperazin-1-yl]butyl]amino]ethyl] cyclopentyl]acetic acid ;	257877-46-6	C ₂₁ H ₃₃ N ₅ O ₃	403.52	 C ₂₁ H ₃₃ N ₅ O ₃ Mol. Wt.: 403.52

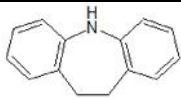
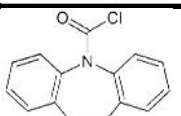
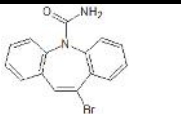
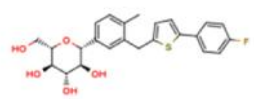
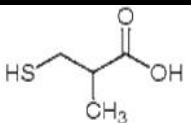
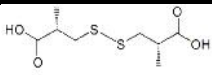
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	Buspirone EP Impurity K	8-Azaspiro[4.5]decane-7,9-dione; 1,1-Cyclopentanediacetimide; 3-Spirocyclopentaneglutarimide; NSC 400092; Buspirone EP Impurity K	1075-89-4	C ₉ H ₁₃ NO ₂	167.21	
	Buspirone EP Impurity L	N-(4-Chlorobutyl)-1,1-cyclopentanediacetimide; Buspirone EP Impurity L	21098-11-3	C ₁₃ H ₂₀ ClNO ₂	257.76	
	Buspirone Impurity N	8,8-((1,4-Butanediyl)bis-8-azaspiro[4.5]decane-7,9-dione	257877-44-4	C ₂₂ H ₃₂ N ₂ O ₄	388.5	
CARFILZOMIB						
C	Carfilzomib N-Oxide Impurity	4-(((1S)-1-(((1S)-3-methyl-1-(((1S)-1-(((2R)-4-methyl-1-((2R)-2-methyloxiran-2-yl)-1-oxopentan-2-yl]carbamoyl)-2-phenylethyl]carbamoyl)butyl]carbamoyl)-3-phenylpropyl]carbamoyl)methyl)morpholin-4-ium-4-olate.	NA	C ₄₀ H ₅₇ N ₅ O ₈	735.93	
CAFFEINE						
	Caffeine Impurity B	NA	7597-60-6	C ₇ H ₁₀ N ₄ O ₃	198.18	

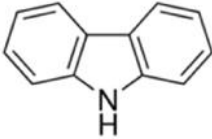
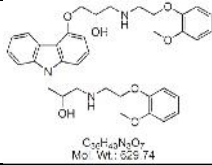
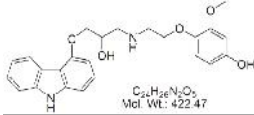
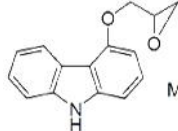
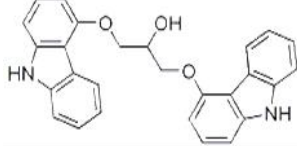
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Caffeine Impurity C	NA	519-32-4	C ₈ H ₁₀ N ₄ O ₂	194.19	
Caffeine Impurity E	NA	107605-95-8	C ₇ H ₁₂ N ₄ O · HCl	168.20	
Caffeine Impurity F	NA	611-59-6	C ₇ H ₈ N ₄ O ₂	180.17	
CARBIDOPA					
Carbidopa Methyl Ester	Hydrazinyl-3,4-dihydroxy-?-methylbenzenepropanoic Acid Methyl Ester; ?-Hydrazino-3,4-dihydroxy-?-methylhydrocinnamic Acid Methyl Ester;	91431-01-5	C ₁₁ H ₁₆ N ₂ O ₄	240.26	
Carbidopa Ethyl Ester	Hydrazinyl-3,4-dihydroxy-?-methylbenzenepropanoic Acid Ethyl Ester Hydrochloride; ?-Hydrazino-3,4-dihydroxy-?-methylhydrocinnamic Acid Ethyl Ester Hydrochloride	96115-88-7	C ₁₂ H ₁₉ N ₂ O ₄	290.74	
CAPECITABINE					
Capecitabine EP Impurity A	Capecitabine USP RC A ;5'-Deoxy-5-fluorocytidine ;	66335-38-4	C ₉ H ₁₂ FN ₃ O ₄	245.21	 C ₉ H ₁₂ FN ₃ O ₄ Mol. Wt.: 245.21

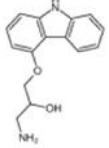
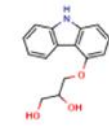
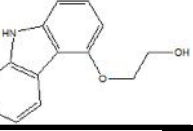
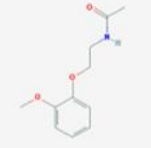
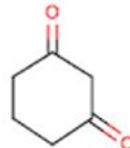
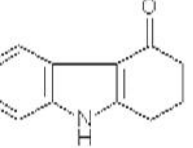
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Capecitabine RC B	Capecitabine EP Impurity B ;5'dFUrd, 5-Fluoro-5'-deoxyuridine, Doxifluridine.	3094-09-5	C9H11FN2O5	246.19	
Capecitabine EP Impurity C	2',3'-Di-O-acetyl-5'-deoxy-5-fluorocytidine ;	161599-46-8	C13H16FN3O6	329.28	
Capecitabine RC C	2',3'-O-carbonyl-5'-deoxy-5-fluoro-N4-(pentyloxycarbonyl)cytidine.	921769-65-5	C16H20FN3O7	385.34	
Capecitabine EP Impurity E	Capecitabine 3-Methylbutyloxy Impurity (USP) ; 5'-Deoxy-5-fluoro-N4-(3-methylbutyloxycarbonyl)cytidine ;	162204-30-0	C15H22FN3O6	359.35	
CANDESARTAN					
Candesartan Cilexetil EP Impurity A	2-Ethoxy-1-[[2-[1-(triphenylmethyl)-1H-tetrazol-5-yl]][1,1'-(biphenyl)-4-yl]methyl]-1H-benzimidazole-7-carboxylic Acid ethyl ester.	139481-58-6	C26H24N6O3	468.51	
Candesartan Cilexetil EP Impurity B	Candesartan Cilexetil O-Desethyl Analog ; (1RS)-1-[[[(Cyclohexyloxy)carbonyl]oxy]ethyl 2-oxo-3-[[2'-(1H-tetrazol-5-yl)biphenyl-4-yl]methyl]-2,3dihydro-1H-benzimidazole-4-carboxylate ; 1-(Cyclohexyloxycarbonyloxy)ethyl 1-((2'-(1H-tetrazol-5-yl)biphenyl-4-yl) methyl)-2-hydroxy-1H-benzo[d]imidazole-	869631-11-8	C31H30N6O6	582.61	

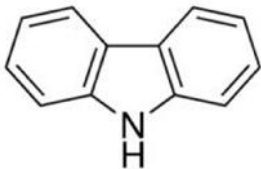
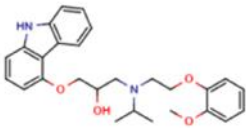
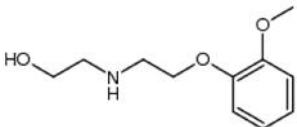
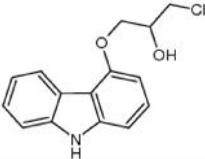
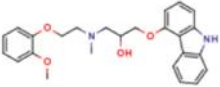
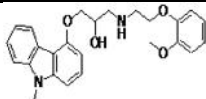
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
	7-carboxylate.				
Candesartan Cilexetil EP Impurity C	Candesartan Cilexetil N1-Ethyl Amide ; Candesartan Cilexetil O-Desethyl N1-Ethyl Impurity ; 2-Desethoxy-2-Hydroxy-1H-N1-Ethyl Candesartan Cilexetil ; (1RS)-1-[[[(Cyclohexyloxy)carbonyl]oxy]ethyl 3-[[2?-(1-ethyl-1H-tetrazol-5-yl)biphenyl-4-yl]methyl]-2-oxo-2,3-dihydro-1H-benzimidazole-4-carboxylate ;	1185255-99-5	C33H34N6O6	610.66	 C ₃₃ H ₃₄ N ₆ O ₆ Mol. Wt.: 610.66
Candesartan Cilexetil EP Impurity D	Candesartan Cilexetil N2-Ethyl Amide ; Candesartan Cilexetil O-Desethyl N2-Ethyl Analog ; 2-Desethoxy-2-Hydroxy-2H-N2-Ethyl Candesartan Cilexetil ; (1RS)-1-[[[(Cyclohexyloxy)carbonyl]oxy]ethyl 3-[[2?-(2-ethyl-2H-tetrazol-5-yl)biphenyl-4-yl]methyl]-2-oxo-2,3-dihydro-1H-benzimidazole-4-carboxylate ;	1185256-03-4	C33H34N6O6	610.66	 C ₃₃ H ₃₄ N ₆ O ₆ Mol. Wt.: 610.66
Candesartan Cilexetil EP Impurity E	1H-N1-Ethyl Candesartan Cilexetil ; 2-Ethoxy-1-[[2'-[1-ethyl-1H-tetrazol-5-yl][1,1'-biphenyl]-4-yl]methyl]-1H-benzimidazole-7-carboxylic acid 1-[[[(cyclohexyloxy) carbonyl]oxy]ethyl ester.	914613-35-7	C35H38N6O6	638.71	 C ₃₅ H ₃₈ N ₆ O ₆ Mol. Wt.: 638.71
Candesartan Cilexetil EP Impurity F	Candesartan Cilexetil N2-Ethyl Impurity ; 2H-N2-Ethyl Candesartan Cilexetil ; 2-Ethoxy-1-[[2'-[2-ethyl-1H-tetrazol-5-yl][1,1'-biphenyl]-4-yl]methyl]-1H-benzimidazole-7-carboxylic acid 1-[[[(cyclohexyloxy) carbonyl]oxy]ethyl ester ;	914613-36-8	C35H38N6O6	638.71	 C ₃₅ H ₃₈ N ₆ O ₆ Mol. Wt.: 638.71
Candesartan Cilexetil EP Impurity G	1 Candesartan (Acid) ; 2-Ethoxy-3-[[4-[2-(1H-tetrazol-5-yl)phenyl]phenyl]methyl]-3H-benzimidazole-4-carboxylic acid.	139481-59-7	C24H20N6O3	440.45	 C ₂₄ H ₂₀ N ₆ O ₃ Mol. Wt.: 440.45
Candesartan Cilexetil EP Impurity H	Candesartan Cilexetil EP Impurity H ; Candesartan Cilexetil N1-Trityl Analog ; N1-Trityl Candesartan Cilexetil ; 2-Ethoxy-1-[[2'-[1-(triphenylmethyl)-1H-tetrazol-5-yl][1,1'-biphenyl]-4-yl]methyl]-1H-benzimidazole-7-carboxylic acid	170791-09-0	C52H48N6O6	852.97	 C ₅₂ H ₄₈ N ₆ O ₆ Mol. Wt.: 852.97

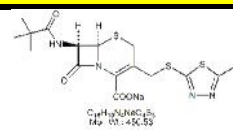
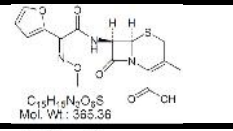
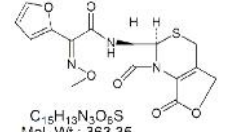
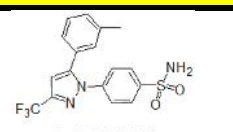
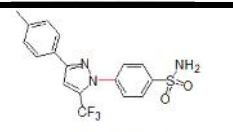
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
	1-[[cyclohexyloxy) carbonyl]oxy]ethyl ester ;				
Trityl Candesartan	TRITYL CANDESARTAN;N-Trityl Candesartan;Triphenyl Candesartan;CANDESARTAN INTERMEDIATE A;Candesartan N1-Trityl Impurity;(1H)-Benzimidazole-7-carboxylic acid;Trityl Candesartan,Candesartan Cilexetil;TRITYL CANDESARTAN (FOR CANDESARTAN CILEXETIL);Trityl Candesartan[Candesartan Cilexetil Intermediates];2-ethoxy-1-[[2-(1-triphenylmethyl-1H-tetrazol-5-yl)bi	139481-72-4	C43H34N6O3	682.77	
CARBAMAZEPINE					
Carbamazepine EP Impurity A	10,11-Dihydro-5H-dibenzo[b,f]azepine-5-carboxamide ; 10,11-Dihydro carbamazepine ;	3564-73-6	C15H14N2O	238.28	 C ₁₅ H ₁₄ N ₂ O Mol. Wt.: 238.28
Carbamazepine EP Impurity B	9-Methylacridine ;	611-64-3	C14H11N	193.24	 C ₁₄ H ₁₁ N Mol. Wt.: 193.24
Carbamazepine EP Impurity C	Carbamazepine USP Impurity C ; 5H-Dibenzo[b,f]azepin-5-ylcarbonyl)urea ; N-Carbamoyl Carbamazepine ;	1219170-51-0	C16H13N3O2	279.29	 C ₁₆ H ₁₃ N ₃ O ₂ Mol. Wt.: 279.29
Carbamazepine EP Impurity D	Carbamazepine EP Impurity D ; 5H-Dibenzo[b,f]azepine ; Iminostilbene ;	256-96-2	C14H11N	193.24	 C ₁₄ H ₁₁ N Mol. Wt.: 193.24

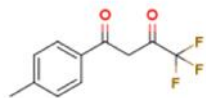
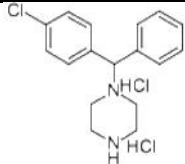
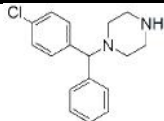
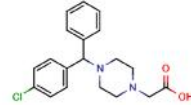
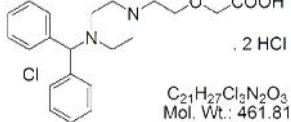
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Carbamazepine EP Impurity E	10,11-Dihydro-5H-dibenzo[b,f]azepine ; Iminodibenzyl ;	494-19-9	C ₁₄ H ₁₃ N	195.26	 C ₁₄ H ₁₃ N Mol. Wt.: 195.26
Carbamazepine EP Impurity F	5H-Dibenzo[b,f]azepine-5-carbonyl chloride ;	33948-22-0	C ₁₅ H ₁₀ ClNO	255.70	 C ₁₅ H ₁₀ ClNO Mol. Wt.: 255.7
Carbamazepine EP Impurity G	10-Bromo-5H-dibenzo[b,f]azepine-5-carboxamide ; 10-Bromocarbamazepine ;	59690-97-0	C ₁₅ H ₁₁ BrN ₂ O	315.16	 C ₁₅ H ₁₁ BrN ₂ O Mol. Wt.: 315.16
CANAGLIFLOZIN					
Canagliflozin Enantiomer Impurity	(2R,3S,4S,5R,6S)-2-(3-((5-(4-fluorophenyl)thiophen-2-yl)methyl)-4-methylphenyl)-6-(hydroxymethyl)tetrahydro-2H-pyran-3,4,5-triol.	NA	C ₂₄ H ₂₅ FO ₅ S	444.51	
CAPTOPRIL					
Captopril EP Impurity C	3-Mercaptoisobutyric Acid; 3-Mercapto-2-methyl-propionic Acid; ?-Mercapto-isobutyric Acid; Captopril EP Impurity C	26473-47-2	C ₄ H ₈ O ₂ S	120.17	
Captopril EP Impurity N	3,3?-Disulfanediylbis[(2S)-2-methylpropanoic] acid ;	65134-74-9	C ₈ H ₁₄ O ₄ S ₂	238.32	 C ₈ H ₁₄ O ₄ S ₂ Mol. Wt.: 238.32

Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
CARVEDILOL					
Carvedilol Impurity API	Carbazole analytical standard	86-74-8	C12H9N	167.21	
Carvedilol EP Impurity A	1-(4-(2-Hydroxy-3-(2-(2-methoxyphenoxy)ethylamino)propoxy)-9H-carbazol-9-yl)-3-(2-(2-methoxyphenoxy)ethylamino)propan-2-ol ;	1198090-73-1	C36H43N3O7	629.74	 C ₃₆ H ₄₃ N ₃ O ₇ Mol. Wt.: 629.74
Carvedilol Impurity 1	4-[2-[[[3-(9H-Carbazol-4-yloxy)-2-hydroxypropyl]amino]ethoxy]-3-methoxyphenol ;	142227-49-4	C24H26N2O5	422.47	 C ₂₄ H ₂₆ N ₂ O ₅ Mol. Wt.: 422.47
Carvedilol EP Impurity D	Carvedilol USP RC D ; Carvedilol Epoxy Impurity ; 4-(2,3-Epoxypropoxy)carbazole ;	51997-51-4	C15H13NO2	239.27	 C ₁₅ H ₁₃ NO ₂ Mol. Wt.: 239.27
Carvedilol Impurity USP	1,3-Bis(9H-carbazol-4-yloxy)-2-propanol (Carvedilol Impurity)	1276477-91-8	C27H22N2O3	422.48	

	Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
	Amino Propanol	1-Amino-3-(9H-carbazol-4-yloxy)-2-propanol	72955-96-5	C ₁₅ H ₁₆ N ₂ O ₂	256.3	
	Carvedilol Diol	3-(9H-Carbazol-4-yloxy)-1,2-propanediol	123119-89-1	C ₁₅ H ₁₅ NO ₃	257.28	
	Carvedilol Impurity 2	2-(9H-Carbazol-4-yloxy)ethanol	NA	C ₁₄ H ₁₃ NO ₂	227.26	
	Carvedilol Impurity 3	N-[2-(2-methoxyphenoxy)ethyl]acetamide	293738-17-7	C ₁₁ H ₁₅ NO ₃	209.24	
	Carvedilol Impurity 4	Dihydro-1,3-benzenediol; 1,3-Dioxocyclohexane; Dihydroresorcinol; Hydroresorcinol; NSC 57477	504-02-9	C ₆ H ₈ O ₂	112.13	
	Carvedilol Impurity 5	1,2,3,4-Tetrahydro-4-oxocarbazole; 1,2,3,4-Tetrahydrocarbazol-4-one; 1,2-Dihydro-4(3H)-carbazolone; 2,3-Dihydrocarbazol-4(1H)-one; 4-Oxo-1,2,3,4-tetrahydrocarbazole;	15128-52-6	C ₁₂ H ₁₁ NO	185.22	

Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Carvedilol Impurity API	Carbazole analytical standard	86-74-8	C ₁₂ H ₉ N	167.21	
Carvedilol N-Isopropyl	1-(9H-Carbazol-4-yloxy)-3-[[2-(2-methoxyphenoxy)ethyl](1-methylethyl)amino]-2-propanol;	1246819-01-1	C ₂₇ H ₃₁ N ₂ O ₄	448.55	
Carvedilol Impurity 6	2-[2-(2-methoxy-phenoxy)-ethylamino]-ethanol	10587-65-2	C ₁₁ H ₁₇ NO ₃	211.25	
Carvedilol Impurity 7	1-(9H-carbazol-4-yloxy)-3-chloropropan-2-ol	1187921-93-2	C ₁₅ H ₁₄ ClNO ₂	275.73	
Carvedilol Impurity 8	1-(9H-Carbazol-4-yloxy)-3-[[2-(2-methoxyphenoxy)ethyl]methylamino]-2-propanol;	72956-35-5	C ₂₅ H ₂₈ N ₂ O ₄	420.5	
Carvedilol Impurity 9	1-[[2-(2-Methoxyphenoxy)ethyl]amino]-3-[(9-methyl-9H-carbazol-4-oxy)-2-propanol	933442-47-8	C ₂₅ H ₂₈ N ₂ O ₂	420.5	

Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
CEFAZOLIN					
Cefazolin EP Impurity B	Cefazolin EP Impurity B ; (6R,7R)-7-[(2,2-Dimethylpropanoyl)amino]-3-[[[(5-methyl-1,3,4-thiadiazol-2-yl)sulfanyl]methyl]-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid sodium salt ; Cefazolin Pivaloyl;	NA	C ₁₆ H ₁₉ N ₄ NaO ₄ S ₃	450.53	 C ₁₆ H ₁₉ N ₄ O ₄ S ₃ Mol. Wt.: 450.53
CEFUROXIME					
Cefuroxime Sodium EP Impurity C	(6R,7R)-7-[[[(Z)-(Furan-2-yl)(methoxyimino)acetyl]amino]-3-methyl-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid ;	NA	C ₁₅ H ₁₅ N ₃ O ₆ S	365.36	 C ₁₅ H ₁₅ N ₃ O ₆ S Mol. Wt.: 365.36
Cefuroxime Sodium EP Impurity H	(5aR,6R)-6-[[[(Z)-(Furan-2-yl)(methoxyimino)acetyl]amino]-5a,6-dihydro-3H,7H-azeto[2,1-b]furo[3,4-d][1,3]thiazine-1,7(4H)-dione ;	947723-87-7	C ₁₅ H ₁₅ N ₃ O ₆ S	363.35	 C ₁₅ H ₁₅ N ₃ O ₆ S Mol. Wt.: 363.35
CELECOXIB					
Celecoxib EP Impurity A	4-[5-(3-Methylphenyl)-3-trifluoromethyl-1H-pyrazol-1-yl]benzenesulfonamide ;	170570-01-1	C ₁₇ H ₁₄ F ₃ N ₃ O ₂ S	381.37	 C ₁₇ H ₁₄ F ₃ N ₃ O ₂ S Mol. Wt.: 381.37
Celecoxib EP Impurity B	4-[3-(4-Methylphenyl)-5-trifluoromethyl-1H-pyrazol-1-yl]benzenesulfonamide ;	331943-04-5	C ₁₇ H ₁₄ F ₃ N ₃ O ₂ S	381.37	 C ₁₇ H ₁₄ F ₃ N ₃ O ₂ S Mol. Wt.: 381.37

Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
4,4,4-Trifluorobutane	4,4,4-trifluoro-1-(p-tolyl)butane-1,3-dione; 4,4,4-trifluoro-1-(4-methylphenyl)butane-1,3-dione; L-(4-Methylphenyl)-4,4,4-trifluorobutane-1,3-dione.	720-94-5	C ₁₁ H ₉ F ₃ O ₂	230.55	
CETIRIZINE					
Cetirizine Dihydrochloride IMP A	1-[(4-CHLOROPHENYL)PHENYLMETHYL]-PIPERAZINE DIHYDROCHLORIDE.	18719-22-7	C ₁₇ H ₁₉ ClN ₂ ·2ClH	359.73	
Cetirizine EP Impurity A	(RS)-1-[(4-Chlorophenyl)phenylmethyl]piperazine ;	303-26-4	C ₁₇ H ₁₉ ClN ₂	286.8	 C ₁₇ H ₁₉ ClN ₂ Mol. Wt.: 286.8
Cetirizine EP Impurity B	Cetirizine EP impurity B; Levocetirizine EP Impurity B ; 2-[4-[azin-1-yrboxymethoxy) Cetirizine Acetic Acid.; Levocetirizine - Impurity B; Levocetirizine EP Impurity B.	113740-61-7	C ₁₉ H ₂₁ ClN ₂ O ₂	344.84	
Cetirizine EP Impurity C	(RS)-2-[2-[4-[(2-Chlorophenyl)phenylmethyl]piperazin-1-yl]ethoxy] acetic acid dihydrochloride.	83881-59-8	C ₂₁ H ₂₇ Cl ₃ N ₂ O ₃	461.81	 C ₂₁ H ₂₇ Cl ₃ N ₂ O ₃ Mol. Wt.: 461.81

Impurity Catalogue

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Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Cetirizine EP Impurity D	1,4-bis[(4-Chlorophenyl)phenylmethyl]piperazine dihydrochloride.	346451-15-8	C ₃₀ H ₃₀ Cl ₄ N ₂	560.38	
Cetirizine EP Impurity E	(RS)-2-[2-[2-[4-[(4-Chlorophenyl)phenylmethyl]piperazin-1-yl]ethoxy] ethoxy] acetic acid	682323-77-9	C ₂₃ H ₂₉ ClN ₂ O ₄	432.94	
Cetirizine EP Impurity G	2-[4-[(RS)-(4-Chlorophenyl)phenylmethyl]piperazin-1-yl]ethanol dihydrochloride.	728948-88-7	C ₁₉ H ₂₅ Cl ₃ N ₂ O	403.77	
Cetirizine 3-Chloro Impurity	(RS)-2-[2-[4-[(3-Chlorophenyl)phenylmethyl]piperazin-1-yl]ethoxy] acetic acid dihydrochloride.	1232460-29-5	C ₂₁ H ₂₇ Cl ₃ N ₂ O ₃	461.81	
Cetirizine Methyl Ester (USP)	(RS)-2-[2-[4-[(4-Chlorophenyl)phenylmethyl]piperazin-1-yl]ethoxy]acetic acid methyl ester dihydrochloride.	83881-46-3	C ₂₂ H ₂₉ Cl ₃ N ₂ O ₃	475.84	
Cetirizine N-Oxide	(RS)-2-[2-[4-[(4-Chlorophenyl)phenylmethyl]-1-oxido-piperazin-1-yl]ethoxy] acetic acid ;	1076199-80-8	C ₂₁ H ₂₅ ClN ₂ O ₄	404.89	

Impurity Catalogue

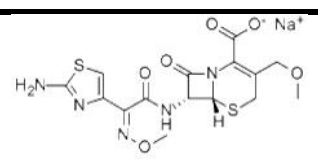
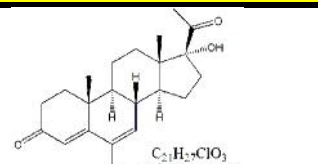
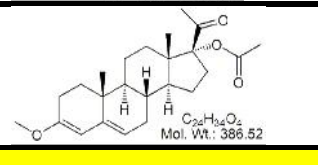
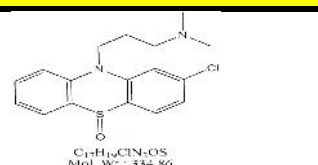
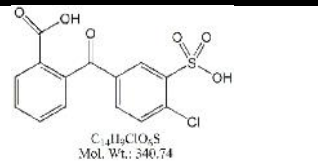
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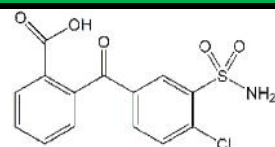
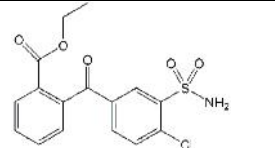
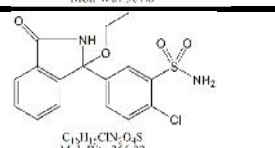
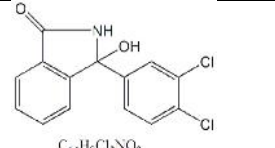
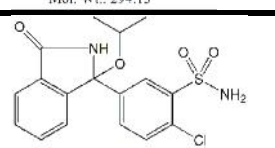


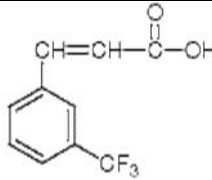
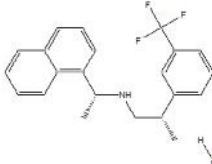
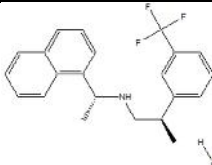
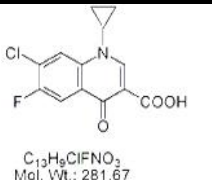

Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Cetirizine Ethyl Ester (USP RC A)	Cetirizine USP RC A; Cetirizine Ethyl Ester; Cetirizine Related Compound A; Cetirizine Ethyl Ester (USP RC A); Cetirizine ethyl ester dihydrochloride; Levocetirizine Impurity: Impurity A (USP); Acetic acid, 2-[2-[4-[(4-chlorophenyl)phenylmethyl]-1-piperazinyl]ethoxy]-, ethyl ester; (RS)-2-[2-[4-[(4-chlorophenyl)phenylmethyl]piperazin-1-yl]ethoxy]acetic acid	246870-46-2	C ₂₃ H ₂₉ ClN ₂ O ₃	416.	
Cetirizine S-Isomer	(S)-Cetirizine Dihydrochloride ; (S)-2-[2-[4-[(4-Chlorophenyl)phenylmethyl]piperazin-1-yl]ethoxy]acetic acid dihydrochloride ;	163837-48-7	C ₂₁ H ₂₇ Cl ₃ N ₂ O ₃	461.81	 C ₂₁ H ₂₇ Cl ₃ N ₂ O ₃ Mol. Wt.: 461.81
Cetirizine Polyethylene Glycol (PEG) Ester	NA	1509941-93-8	C ₂₁ H ₂₅ ClN ₂ O ₃ [C ₂ H ₄ O] _n	432.94	
Cetirizine Glycerol Ester	2,3-dihydroxypropyl 2-(2-[4-[(4-chlorophenyl)phenylmethyl]piperazin-1-yl]ethoxy)acetate.	1243652-36-9	C ₂₄ H ₃₁ ClN ₂ O ₅	462.97	
Cetirizine Sorbitol Ester Impurity	(2R,3R,4R,5R)-2,3,4,5,6-pentahydroxyhexyl 2-(2-[4-[(4-chlorophenyl)phenylmethyl]piperazin-1-yl]ethoxy)acetate hydrochloride;	13848888-64-5	C ₂₇ H ₃₇ ClN ₂ O ₈	553.04	 HCl
Cetirizine EP Impurity F	Cetirizine EP Impurity F ; Deschloro Cetirizine Dihydrochloride (USP) ; [2-[4-(Diphenylmethyl)piperazin-1-yl]ethoxy]acetic acid dihydrochloride ;	83881-54-3	C ₂₁ H ₂₈ Cl ₂ N ₂ O ₃	427.36	 C ₂₁ H ₂₈ Cl ₂ N ₂ O ₃ Mol. Wt.: 427.36

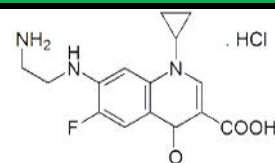
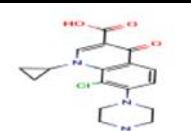
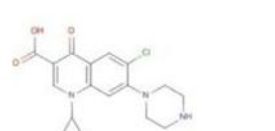
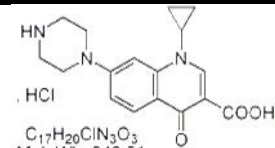
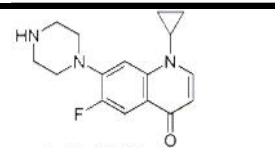


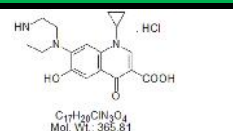
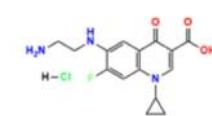
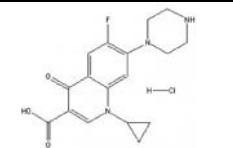
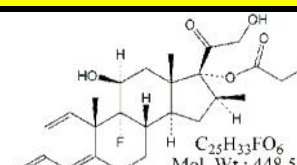
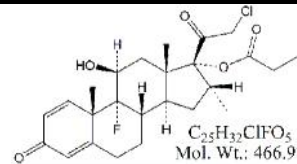
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
CEFPODOXIME					
Cefpodoxime Proxetil EP Impurity A	Cefpodoxime ; Cefpodoxime Acid ; (6R,7R)-7-[[[(2Z)-2-(2-Aminothiazol-4-yl)-2(methoxyimino)acetyl]amino]-3-(methoxymethyl)-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid ;	80210-62-4	C15H17N5O6S2	427.46	 C ₁₅ H ₁₇ N ₅ O ₆ S ₂ Mol. Wt.: 427.46
Cefpodoxime Proxetil EP Impurity B	ADCA-Analogue of Cefpodoxime Proxetil ; 3-Methyl 3-De(methoxymethyl) Cefpodoxime ; (1RS)-1-[[[(1-Methylethoxy)carbonyl]oxy]ethyl (6R,7R)-7-[[[(2Z)-2-(2-amino thiazol-4-yl)-2(methoxyimino)acetyl]amino]-3-methyl-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylate ;	947692-14-0	C20H25N5O8S2	527.57	 C ₂₀ H ₂₅ N ₅ O ₈ S ₂ Mol. Wt.: 527.57
Cefpodoxime Proxetil EP Impurity C	Delta-2-Cefpodoxime Proxetil ; (1RS)-1-[[[(1-Methylethoxy)carbonyl]oxy]ethyl (6R,7R)-7-[[[(2Z)-2-(2-amino thiazol-4-yl)-2(methoxyimino)acetyl]amino]-3-(methoxymethyl)-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-3-ene-2-carboxylate ;	339528-86-8	C21H27N5O9S2	557.6	 C ₂₁ H ₂₇ N ₅ O ₉ S ₂ Mol. Wt.: 557.6
Cefpodoxime Proxetil EP Impurity D	Anti-Cefpodoxime Proxetil ; (1RS)-1-[[[(1-Methylethoxy)carbonyl]oxy]ethyl (6R,7R)-7-[[[(2E)-2-(2-amino thiazol-4-yl)-2(methoxyimino)acetyl]amino]-3-(methoxymethyl)-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylate ;	947692-13-9	C21H27N5O9S2	557.60	 C ₂₁ H ₂₇ N ₅ O ₉ S ₂ Mol. Wt.: 557.60
Cefpodoxime Proxetil EP Impurity E	ACA-Analogue of Cefpodoxime Proxetil ; (1RS)-1-[[[(1-Methylethoxy)carbonyl]oxy]ethyl (6R,7R)-3-(acetoxymethyl)-7-[[[(2Z)-2-(2-aminothiazol-4-yl)-2-(methoxyimino)acetyl]amino]-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylate ;	217803-89-9	C22H27N5O10S	585.61	 C ₂₂ H ₂₇ N ₅ O ₁₀ S Mol. Wt.: 585.61
Cefpodoxime Proxetil EP Impurity F	N-Formyl Cefpodoxime Proxetil ; (1RS)-1-[[[(1-Methylethoxy)carbonyl]oxy]ethyl (6R,7R)-7-[[[(2Z)-2-(2-formyl amino)thiazol-4-yl)-2(methoxyimino)acetyl]amino]-3-(methoxymethyl)-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-	96680-30-7	C22H27N5O10S	585.61	 C ₂₂ H ₂₇ N ₅ O ₁₀ S Mol. Wt.: 585.61

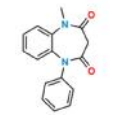
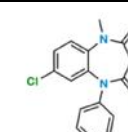
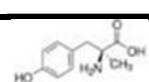
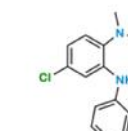
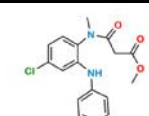
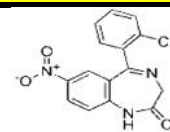
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
	ene-2-carboxylate ;				
Cefpodoxime	R-3746;R 3746;Ru 51746;Cefpodoxime sodium salt;5-Thia-1-azabicyclo(4.2.0)oct-2-ene-2-carboxylic acid, 7-(((2-amino-4-thiazolyl)(methoxyimino)acetyl)amino)-3-(methoxymethyl)-8-oxo-, monosodium salt, (6R-(6alpha,7beta(Z)))-	82619-04-3	C15H16N5O6S2	449.442	
CHLORMADINONE					
Chlormadinone	6-Chloro-17-hydroxypregna-4,6-diene-3,20-dione ;	1961-77-9	C21H27ClO3	362.89	
Chlormadinone Acetate EP Impurity H	3-Methoxy-20-oxopregna-3,5-dien-17-yl acetate ;	1054-64-4	C24H34O4	386.52	
CHLORPROMAZINE					
Chlorpromazine EP Impurity A	3-(2-Chloro-10H-phenothiazin-10-yl)-N,N-dimethylpropan-1-amine S-oxide ;	969-99-3	C17H19ClN2OS	334.86	
CHLORTHALIDONE					
Chlorthalidone Impurity A	2-(4-Chloro-3-sulfobenzoyl)benzoic acid ;	NA	C14H9ClO6S	340.74	

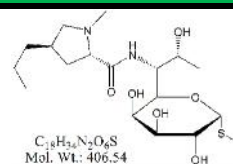
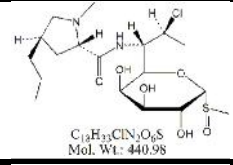
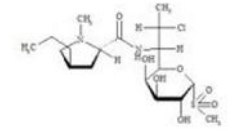
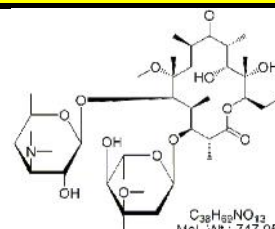
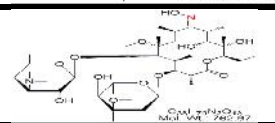
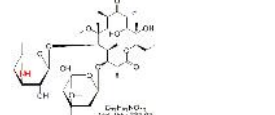
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Chlorthalidone Impurity B	2-[3-(Aminosulfonyl)-4-chlorobenzoyl]-benzoic acid ;	5270-74-6	C ₁₄ H ₁₀ ClNO ₅ S	339.75	 C ₁₄ H ₁₀ ClNO ₅ S Mol. Wt.: 339.75
Chlorthalidone Impurity C	2-[3-(Aminosulfonyl)-4-chlorobenzoyl]-benzoic acid ethyl ester ;	92874-73-2	C ₁₆ H ₁₄ ClNO ₅ S	367.8	 C ₁₆ H ₁₄ ClNO ₅ S Mol. Wt.: 367.8
Chlorthalidone Impurity D	2-Chloro-5[(1RS)-1-ethoxy-3-oxo-2,3-dihydro-1H-isoindol-1-yl]benzene sulfonamide ;	1369588-00-0	C ₁₆ H ₁₅ ClN ₂ O ₄ S	366.82	 C ₁₆ H ₁₅ ClN ₂ O ₄ S Mol. Wt.: 366.82
Chlorthalidone Impurity G	(3RS)-3-(3,4-Dichlorophenyl)-3hydroxy-2,3-dihydro-1H-isoindol-1-one ;	16289-13-7	C ₁₄ H ₉ Cl ₂ NO ₂	294.13	 C ₁₄ H ₉ Cl ₂ NO ₂ Mol. Wt.: 294.13
Chlorthalidone Impurity H	2-Chloro-5[(1RS)-1-(1-methylethoxy)-3-oxo-2,3-dihydro-1H-isoindol-1-yl] benzenesulfonamide ;	NA	C ₁₇ H ₁₇ ClN ₂ O ₄ S	380.85	 C ₁₇ H ₁₇ ClN ₂ O ₄ S Mol. Wt.: 380.85
CINACALCET					

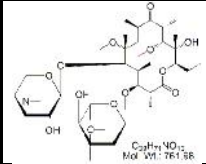
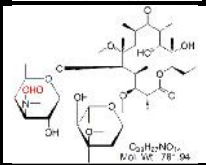
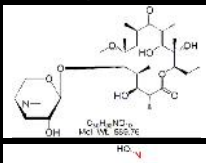
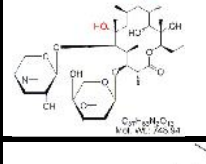
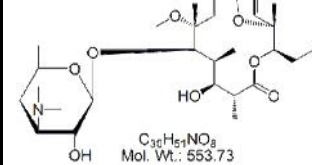
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Cinacalcet Impurity 1	3-(3-Trifluoromethylphenyl)-2-propenoic Acid; 3-(3-Trifluoromethylphenyl)acrylic Acid; m-(Trifluoromethyl)cinnamic Acid	779-89-5	C ₉ H ₇ F ₃ O ₂	216.16	
Cinacalcet Diastereo	(2S)-2-(3-(Trifluoromethyl)phenyl)-N-((R)-1-(naphthalen-1-yl)ethyl)propan-1-amine hydrochloride	2059891-97-1	C ₂₂ H ₂₃ ClF ₃ N	393.87	
Cinacalcet Diastereo Isomer-2	(2R)-2-(3-(Trifluoromethyl)phenyl)-N-((R)-1-(naphthalen-1-yl)ethyl)propan-1-amine hydrochloride	2059891-96-0	C ₂₂ H ₂₃ ClF ₃ N	393.87	
CIPROFLOXACIN					
Ciprofloxacin EP Impurity A	Ciprofloxacin EP Impurity A ; Enrofloxacin EP Impurity A ; 7-Chloro-1-cyclopropyl-6-fluoro-4-oxo-1,4-dihydroquinoline-3-carboxylic acid ;	86393-33-1	C ₁₃ H ₉ ClFNO ₃	281.67	 C ₁₃ H ₉ ClFNO ₃ Mol. Wt.: 281.67
Ciprofloxacin	1-Cyclopropyl-6-fluoro-4-oxo-7-(piperazin-1-yl)-1,4-dihydroquinoline-3-carboxylic acid ;	85721-33-1	C ₁₇ H ₁₈ FN ₃ O ₃	331.34	 C ₁₇ H ₁₈ FN ₃ O ₃ Mol. Wt.: 331.34

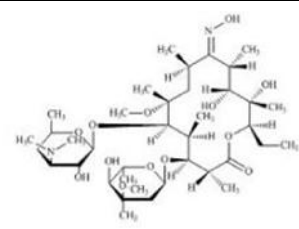
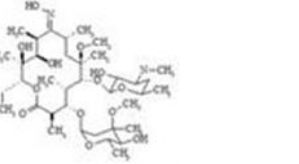
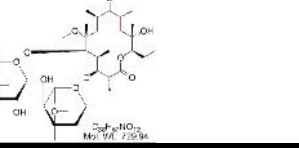
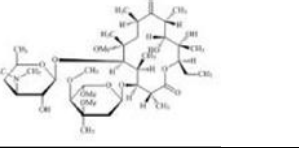
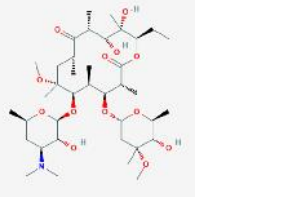
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Ciprofloxacin EP Impurity C	Ciprofloxacin EP Impurity C ; Enrofloxacin EP Impurity G ; 7-[(2-Aminoethyl)amino]-1-cyclopropyl-6-fluoro-4-oxo-1,4-dihydroquinoline-3-carboxylic acid hydrochloride ; Desethylene Ciprofloxacin.	103222-12-4	C ₁₅ H ₁₆ FN ₃ O ₃	305.3	 <p>C₁₅H₁₇ClFN₃O₃ Mol. Wt.: 341.77</p>
Ciprofloxacin EP Impurity D	7-Chloro-1-cyclopropyl-4-oxo-6-(piperazin-1-yl)-1,4-dihydroquinoline-3-carboxylic acid hydrochloride ; Ciprofloxacin USP Related Compound A ;	133210-96-5	C ₁₇ H ₁₈ ClN ₃ O ₃	347.80	
Ciprofloxacin Chloroanalog	3-Quinolinecarboxylic acid,6-chloro-1-cyclopropyl-1,4-dihydro-4-oxo-7-(1-piperazinyl).	93106-58-2	C ₁₇ H ₁₈ ClN ₃ O ₃	347.80	
Ciprofloxacin EP Impurity B	Desfluoro Ciprofloxacin HCl ; 1-Cyclopropyl-4-oxo-7-(piperazin-1-yl)-1,4-dihydroquinoline-3-carboxylic acid hydrochloride.	93107-11-0	C ₁₇ H ₂₀ ClN ₃ O ₃	349.81	 <p>C₁₇H₂₀ClN₃O₃ Mol. Wt.: 349.81</p>
Ciprofloxacin EP Impurity E	1-Cyclopropyl-6-fluoro-7-(piperazin-1-yl)quinolin-4(1H)-one ;	105394-83-0	C ₁₆ H ₁₈ FN ₃ O	287.33	 <p>C₁₆H₁₈FN₃O Mol. Wt.: 287.33</p>

Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Ciprofloxacin EP Impurity F	Ciprofloxacin 6-Hydroxy Analog ; 1-Cyclopropyl-6-hydroxy-4-oxo-7-(piperazin-1-yl)-1,4-dihydroquinoline-3-carboxylic acid hydrochloride ;	226903-07-7	C17H19N3O4	329.35	 C ₁₇ H ₁₉ N ₃ O ₄ Mol. Wt. 365.81
Ciprofloxacin Impurity 1	6-((2-aminoethyl)amino)-1-cyclopropyl-7-fluoro-4-oxo-1,4-dihydroquinoline-3-carboxylic acid hydrochloride	528851-30-1	C15H17ClFN3O3	341.77	
Ciprofloxacin HCl	1-cyclopropyl-6-fluoro-4-oxo-7-piperazin-1-ylquinoline-3-carboxylic acid hydrochloride.	93107-08-5	C17H18FN3O3	367.80	
CLOBETASOL					
Clobetasol Impurity A	9-Fluoro-11?,21-dihydroxy-16?-methyl-3,20-dioxopregna-1,4-dien-17-yl propanoate ;	5534-13-4	C25H33FO6	448.52	 C ₂₅ H ₃₃ FO ₆ Mol. Wt.: 448.52
Clobetasol Impurity C	21-Chloro-9-?uoro-11?-hydroxy-16?-methyl-3,20-dioxopregna-1,4-dien-17-yl propanoate ;	25122-52-5	C25H32ClFO5	466.97	 C ₂₅ H ₃₂ ClFO ₅ Mol. Wt.: 466.97
CLOBAZAM					

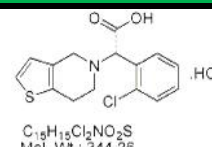
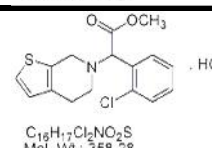
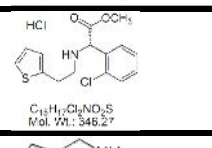
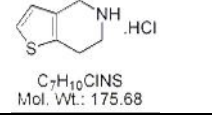

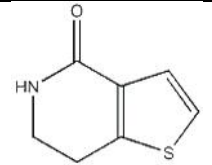
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Clobazam Impurity B	1-methyl-5-phenyl-1,5-dihydro-3H-1,5-benzodiazepine-2,4-dione	22316-24-1	C ₁₆ H ₁₄ N ₂ O ₂	266.3	
Clobazam Impurity C	(3RS)-7-chloro-1,3-dimethyl-5-phenyl-1,5-dihydro-3H-1,5-benzodiazepine-2,4-dione	22316-16-1	C ₁₇ H ₁₅ ClN ₂ O ₂	314.77	
Clobazam Impurity D	7-chloro-1,3,3-trimethyl-5-phenyl-1,5-dihydro-3H-1,5-benzodiazepine-2,4-dione	NA	C ₁₈ H ₁₇ ClN ₂ O ₂	328.8	
Clobazam Impurity E	N[4chloro2(phenylamino)phenyl]Nmethylacetamide	75524-13-9	C ₁₅ H ₁₅ ClN ₂ O	274.75	
Clobazam Impurity F	methyl-3[[4-chloro-2(phenylamino)phenyl]methylamino]3-oxopropanoate	NA	C ₁₇ H ₁₇ ClN ₂ O ₃	332.8	
CLONAZEPAM					
Clonazepam Impurity B	3-Amino-4-(2-chlorophenyl)-6-nitroquinolin-2(1H)-one; USP Clonazepam Related Impurity A; Clonazepam EP Impurity B	55198-89-5	C ₁₅ H ₁₀ ClN ₃ O ₃	315.71 12	
CLINDAMYCIN					


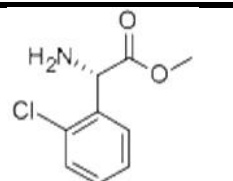
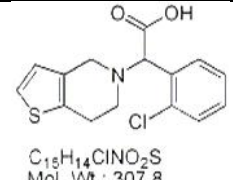
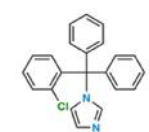

Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Clindamycin HCl EP Impurity A	Clindamycin Phosphate EP Impurity A ; Lincomycin (USP) ; Methyl 6,8-dideoxy-6-[[[(2S,4R)-1-methyl-4-propylpyrrolidin-2-yl]carbonyl] amino]-1-thio-D-erythro-?-D-galacto-octopyranoside ;	154-21-2	C ₁₈ H ₃₄ N ₂ O ₆ S	406.54	 C ₁₈ H ₃₄ N ₂ O ₆ S Mol. Wt.: 406.54
Clindamycin Sulfoxide	7-Chloro-1,6,7,8-tetradeoxy-6-[[[(2S,4R)-1-methyl-4-propyl-2-pyrrolidinyl] carbonyl]amino]-1-(methylsulfinyl)-L-threo-?-D-galactooctopyranose ;	22431-46-5	C ₁₈ H ₃₃ ClN ₂ O ₆ S	440.98	 C ₁₈ H ₃₃ ClN ₂ O ₆ S Mol. Wt.: 440.98
Clindamycin Impurity (Sulfone)	NA	887402-22-4	C ₁₈ H ₃₃ ClN ₂ O ₇ S	456.99	
CLARITHROMYCIN					
Clarithromycin	6-O-Methylerythromycin A ; (3R,4S,5S,6R,7R,9R,11R,12R,13S,14R)-4-[(2,6-Dideoxy-3-C-methyl-3-O-methyl-?-L-ribo-hexopyranosyl)oxy]-14-ethyl-12,13-dihydroxy-7-methoxy-3,5,7,9,11,13-hexamethyl-6-[[3,4,6-trideoxy-3-(dimethylamino)-?-Dxylohexopyranosyl]oxy]oxacyclotetradecane-2,10-dione ;	81103-11-9	C ₃₈ H ₆₉ NO ₁₃	747.95	 C ₃₈ H ₆₉ NO ₁₃ Mol. Wt.: 747.95
Clarithromycin EP Impurity C	6-O-Methylerythromycin A (E)-9-oxime ;	103450-87-9	C ₃₈ H ₇₀ N ₂ O ₁₃	762.97	 C ₃₈ H ₇₀ N ₂ O ₁₃ Mol. Wt.: 762.97
Clarithromycin EP Impurity D	3?-N-Demethyl-6-O-methylerythromycin A ;	101666-68-6	C ₃₇ H ₆₇ NO ₁₃	733.93	 C ₃₇ H ₆₇ NO ₁₃ Mol. Wt.: 733.93

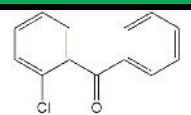
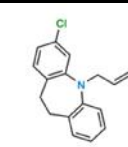
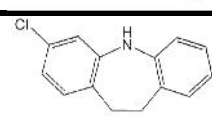
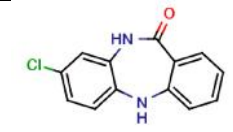
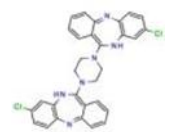
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Clarithromycin EP Impurity E	6,11-Di-O-methylerythromycin A ;	81103-14-2	C ₃₉ H ₇₁ NO ₁₃	761.98	 C ₃₉ H ₇₁ NO ₁₃ Mol. Wt.: 761.98
Clarithromycin EP Impurity H	3?-N-Demethyl-3?-N-formyl-6-O-methylerythromycin A ;	127140-69-6	C ₃₈ H ₆₇ NO ₁₄	761.94	 C ₃₈ H ₆₇ NO ₁₄ Mol. Wt.: 761.94
Clarithromycin EP Impurity I	3-O-Decladinosyl-6-O-methylerythromycin A ;	118058-74-5	C ₃₀ H ₅₅ NO ₁₀	589.76	 C ₃₀ H ₅₅ NO ₁₀ Mol. Wt.: 589.76
Clarithromycin EP Impurity J	Erythromycin A (E)-9-oxime ;	13127-18-9	C ₃₇ H ₆₈ N ₂ O ₁₃	748.94	 C ₃₇ H ₆₈ N ₂ O ₁₃ Mol. Wt.: 748.94
Clarithromycin EP Impurity K	(1S,2R,5R,6S,7S,8R,9R,11Z)-2-Ethyl-6-hydroxy-9-methoxy-1,5,7,9,11,13-hexamethyl-8-[[3,4,6-trideoxy-3-(dimethylamino)-?-D-xyllo-hexopyranosyl]oxy]-3,15-dioxabicyclo[10.2.1]pentadeca-11,13-dien-4-one ;	127157-35-1	C ₃₀ H ₅₁ NO ₈	553.73	 C ₃₀ H ₅₁ NO ₈ Mol. Wt.: 553.73

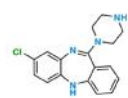
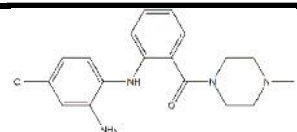
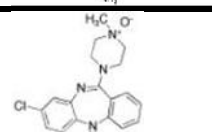
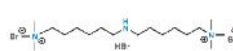


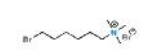
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Clarithromycin EP Impurity L	(3R,4S,5S,6R,7R,9R,10Z,11S,12R,13S,14R)-6-[[[(2S,3R,4S,6R)-4-(dimethylamino)-3-hydroxy-6-methyloxan-2-yl]oxy]-14-ethyl-12,13-dihydroxy-4-[[[(2R,4R,5S,6S)-5-hydroxy-4-methoxy-4,6-dimethyloxan-2-yl]oxy]-10-(hydroxyimino)-7-methoxy-3,5,7,9,11,13-hexamethyl-1-ne.	127253-05-8	C38H70N2O13	762.99	
Clarithromycin EP Impurity M	3-N-demethyl-6-O-methylerythromycin A (E)-9-Oxime	NA	C38H70N2O13	762.99	
Clarithromycin EP Impurity N	(10E)-10,11-Didehydro-11-deoxy-6-O-methylerythromycin A ;	144604-03-5	C38H67NO12	729.94	
Clarithromycin EP Impurity P	rivative; 4'-O-Methylclarithromycin.	123967-58-8	C39H71NO13	761.98	
(14R)-14-Hydroxy Clarithromycin	14-OH Clarithromycin; (14-OH)Clarithromycin; AC1L9UMU; (3R,4S,5S,6R,7R,9R,11R,12R,13S,14R)-6-[[[(2S,3R,4S,6R)-4-(dimethylamino)-3-hydroxy-6-methyl-tetrahydropyran-2-yl]oxy]-14-ethyl-12,13,14-trihydroxy-4-[[[(2R,4R,5S,6S)-5-hydroxy-4-methoxy-4,6-dimethyl-tetrahydropyran-2-yl]oxy]-7-methoxy-3,5,7,9,11,13-hexamethyl-oxacyclotetradecane-2,10-dione; (3R,4S,5S	116836-41-0	C38H69NO14	763.95	

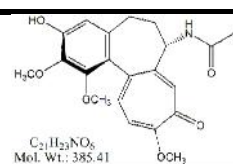
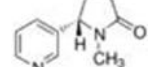
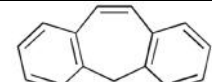
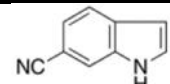
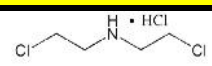
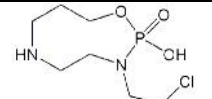
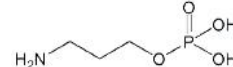
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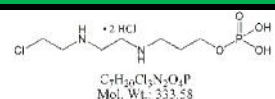
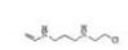
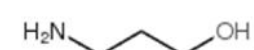
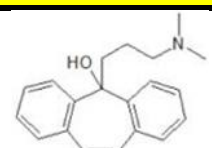
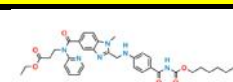
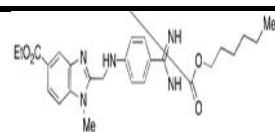
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Clopidogrel EP Impurity A	Clopidogrel USP Related Compound A ; (S)-Clopidogrel Acid Hydrochloride ; Clopidogrel Acid S-Isomer HCl ; (+)-(S)-(2-Chlorophenyl)[6,7-dihydrothieno [3,2-c]pyridine-5(4H)-yl]acetic acid hydrochloride.	144750-42-5	C ₁₅ H ₁₅ Cl ₂ NO ₂ S	344.26	 C ₁₅ H ₁₅ Cl ₂ NO ₂ S Mol. Wt.: 344.26
Clopidogrel USP RC B	Methyl (◆)-(o-chlorophenyl)[4,5-dihydrothieno[2,3-c]pyridine-6(7H)-yl]acetate hydrochloride ; Methyl (2RS)-(o-chlorophenyl)[4,5-dihydrothieno[2,3-c]pyridine-6(7H)-yl]acetate hydrochloride.	144750-52-7	C ₁₆ H ₁₇ Cl ₂ NO ₂ S	358.28	 C ₁₆ H ₁₇ Cl ₂ NO ₂ S Mol. Wt.: 358.28
Clopidogrel Thienylethyl Impurity	Clopidogrel Thienylethyl Impurity (HCl salt) ; (S)-2-Chloro-alpha-[[2-(2-thienyl)ethyl]amino]benzeneacetic acid methyl ester HCl ;	141109-20-8	C ₁₅ H ₁₆ ClNO ₂ S	309.81	 C ₁₅ H ₁₆ ClNO ₂ S Mol. Wt.: 346.27
Clopidogrel Thienopyridine Impurity	4,5,6,7-Tetrahydrothieno[3,2-c] pyridine hydrochloride ;	28783-41-7	C ₇ H ₁₀ ClNS	175.68	 C ₇ H ₁₀ ClNS Mol. Wt.: 175.68
Clopidogrel Bisulfate	Clopidogrel Hydrogen Sulfate ; Methyl (2S)-(2-chlorophenyl)[6,7-dihydro thieno [3,2-c]pyridin-5(4H)-yl]acetate sulfate ;	120202-66-6	C ₁₆ H ₁₆ ClNO ₂ S	321.81	 C ₁₆ H ₁₆ ClNO ₂ S (Free Base) Mol. Wt.: 321.82
Clopidogrel Impurity 1	Ticlopidine Related CoMpd A;6,7-dihydrothieno[3.2.c]pyridin-4(5H)-one;Ticlopidine Related Compound A (20 mg) (4-oxo-4,5,6,7-tetrahydrothieno-[3,2-c]pyridine).	68559-60-4	C ₇ H ₇ NO ₂ S	153.20	

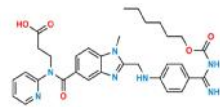
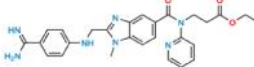
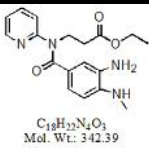
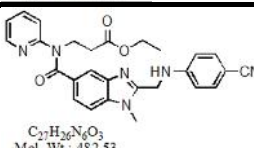
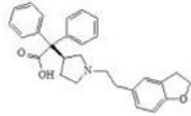
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
S-Clopidogril Acid Impurity	Clopidogrel Acid Racemate HCl ; Clopidogrel Metabolite "SR26334" HCl ; rac-Clopidogrel Carboxylic Acid HCl ; (2RS)-(2-Chlorophenyl)[6,7-dihydrothieno [3,2-c]pyridin-5(4H)-yl]acetic acid HCl ;	1015247-88-7	C ₁₅ H ₁₅ Cl ₂ NO ₂ S	344.26	 <p>C₁₅H₁₅Cl₂NO₂S Mol. Wt.: 344.26</p>
Chlorophenylglycine Methyl Ester	S)-(+)-2-Chlorophenylglycine methyl ester of Methyl (+)-Tartrate C-aMino(2-chlorophenyl) METHYL S-(+)-2-CHLORO PHENYLGLYCINATE;L(+)-2-Chlorophenylglycine Methyl HCL;Chemical intermediate for Clopidogrel;	141109-14-0	C ₉ H ₁₀ ClNO ₂	199.63	
Clopidogrel Acid Racemate	rac-Clopidogrel Carboxylic Acid ; Clopidogrel Metabolite "SR26334" ; (2R)-(2-Chlorophenyl)[6,7-dihydro thieno [3,2-c]pyridin-5(4H)-yl]acetic acid ;	90055-55-3	C ₁₅ H ₁₄ ClNO ₂ S	307.8	 <p>C₁₅H₁₄ClNO₂S Mol. Wt.: 307.8</p>
CLOTRIMAZOLE					
Clotrimazole	Clotrimazole Impurity API	23593-75-1	C ₂₂ H ₁₇ ClN ₂	344.85	
Clotrimazole EP Impurity A	(2-Chlorophenyl)diphenylmethanol ;	66774-02-5	C ₁₉ H ₁₅ ClO	294.77	 <p>C₁₉H₁₅ClO Mol. Wt.: 294.77</p>

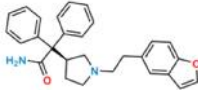
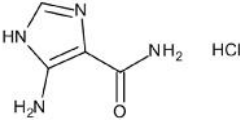

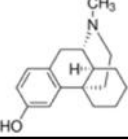
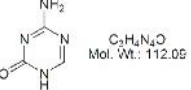
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Clotrimazole EP Impurity E	(2-Chlorophenyl)phenylmethanone ;	5162-03-8	C ₁₃ H ₉ ClO	216.66	 <p>C₁₃H₉ClO Mol. Wt.: 216.66</p>
CLOMIPRAMINE					
Clomipramine Hydrochloride Impurity G	N-Allyl-3-chloro-10,11-dihydro-5H-dibenzo[b,f]azepine; 3-Chloro-10,11-dihydro-5-(2-propen-1-yl)-5H-dibenz[b,f]azepine;	1425793-87-8	C ₁₇ H ₁₆ ClN	269.78	
Clomipramine EP Impurity F	3-Chloro-10,11-dihydro-5H-dibenzo[b,f]azepine ;	32943-25-2	C ₁₄ H ₁₂ ClN	229.7	 <p>C₁₄H₁₂ClN Mol. Wt.: 229.7</p>
CLOZAPINE					
Clozapine EP Impurity A	8-Chloro-5,10-dihydro-11H-dibenzo[b,e][1,4]-diazepin-11-one; ;drodebenzo[b,e][1,4]diazepin-11-one;8-Chloro-5,10-dihydro-11H-dibenzo[b,e][1,4]-diazepin-11-one; ,4]diazepin-11-one; drodebenzo[b,e][1,4]diazepin-11-one; 3-chloro-5,11-dihydrobenzo[b][1,4]benzodiazepin-6-one;8-Chloro-11-oxo-5H-dibenzo[b,e][1,4]diazepine;8-Chloro-5,10-dihydrodibenzo[b,f]	50892-62-1	C ₁₃ H ₉ ClN ₂ O	244.67	
Clozapine EP Impurity B	11,11'-(Piperazine-1,4-diyl)-bispine; hloro-5H-benzo[b][1,4]benzodiazepin-6-yl)piperazin-1-yl]-5H-benzo[b][1,4]benzodiazepine;	263366-81-0	C ₃₀ H ₂₄ Cl ₂ N ₆	538.14	

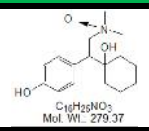
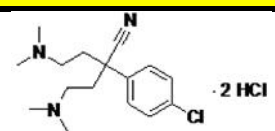
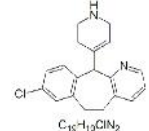
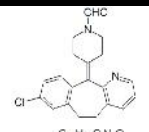
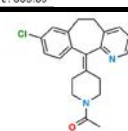
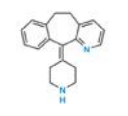
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Clozapine EP Impurity C	NA	6104-71-8	C ₁₇ H ₁₇ ClN ₄	312.8	
Clozapine EP Impurity D	Clozapine EP Impurity D; [2-[(2-Amino-4-chlorophenyl)amino]phenyl](4-Methyl-1-piperazinyl)Methanone.	65514-71-8	C ₁₈ H ₂₁ ClN ₄ O	344.84	
Clozapine N-Oxide	8-Chloro-11-(4-methyl-1-piperazinyl)-5H-dibenzo[b,e][1,4]diazepine N-Oxide, CNO.	34233-69-7	C ₁₈ H ₁₉ ClN ₄ O	342.82	
AMINOQUAT					
Dihexyl Aminoquat	6,6'-azanediylbis(N,N,N-trimethylhexan-1-aminium) bromide hydrobromide	NA	C ₁₈ H ₄₃ N ₃ 2Br HBr	301.5	
Aminoquat	1-Hexanaminium, 6-amino-N,N,N-trimethyl-, bromide, hydrobromide; (6-Aminoethyl)trimethylammonium bromide, hydrobromide (6Cl) 1-Hexanaminium, 6-amino-N,N,N-trimethyl-, bromide, hydrobromide (9Cl); Ammonium, (6-aminoethyl)trimethyl-, bromide, hydrobromide (8Cl)	33968-67-1	C ₉ H ₂₃ N ₂ Br HBr	159.3	
Decyl Aminoquat	6-(decylamino)-N,N,N-trimethylhexan-1-aminium bromide hydrobromide	NA	C ₁₉ H ₄₃ N ₂ Br HBr	299.6	
Bromquat Impurity	1-Hexanaminium, 6-bromo-N,N,N-trimethyl-, bromide, compd. with 1-bromodecane and (chloromethyl)oxirane polymer with 2-propen-1-amine	475503-55-0	C ₉ H ₂₁ Br ₂ N	303	

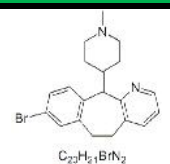
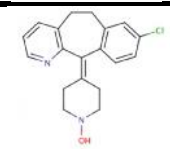
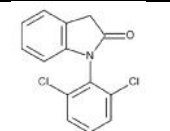
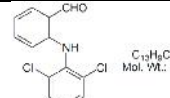
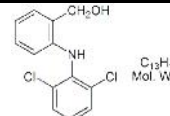
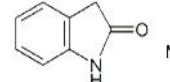
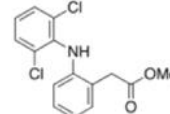
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
	(9CI); Polyamine; Polyamine formed; Polyvinyl				
Colchicine EP Impurity E	N-[(7S,12aRa)-3-Hydroxy-1,2,10-trimethoxy-9-oxo-5,6,7,9-tetrahydrobenzo[a]heptalen-7-yl]acetamide ;	7336-33-6	C ₂₁ H ₂₃ NO ₆	385.4	 C ₂₁ H ₂₃ NO ₆ Mol. Wt.: 385.41
Cotinine	(S)-1-Methyl-5-(3-pyridyl)-2-pyrrolidinone, S(?) -1-Methyl-5-(3-pyridyl)-2-pyrrolidone.	486-56-6	C ₁₀ H ₁₂ N ₂ O	176.22	
Cyproheptadine RC A	1,2:5,6-Dibenzocycloheptatriene; 1,2:5,6-Dibenzotropilidene; 2,3:6,7-Dibenzo-4-suberene; 2,3:6,7-Dibenzocycloheptatriene; Dibenzo[a,d]cycloheptatriene; Dibenzo[a,e]cycloheptatriene; Suberene; USP Cyproheptadine Related Compound A;	256-81-5	C ₁₅ H ₁₂	192.26	
6-Cyanoindole	1H-Indole-6-carbonitrile;	15861-36-6	C ₉ H ₆ N ₂	142.16	
CYCLOPHOSPHAMIDE					
Cyclophosphamide USP RC A	Bis(2-Chloroethyl)amine hydrochloride	821-48-7	C ₄ H ₁₀ Cl ₃ N	178.49	 C ₄ H ₁₀ Cl ₃ N Mol. Wt.: 178.49
Cyclophosphamide USP RC B	3-(2-Chloroethyl)-2-oxo-2-hydroxy-1,3,6,2-oxadiazaphosponane ;	158401-52-6	C ₇ H ₁₆ ClN ₂ O ₃ P	242.64	 C ₇ H ₁₆ ClN ₂ O ₃ P Mol. Wt.: 242.64
Cyclophosphamide USP RC C	3-Aminopropyl dihydrogen phosphate ; 3-Aminopropyl-phosphoric acid ester ;	1071-28-9	C ₃ H ₁₀ NO ₄ P	155.09	 C ₃ H ₁₀ NO ₄ P Mol. Wt.: 155.09

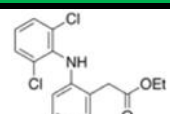
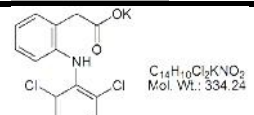
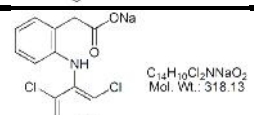
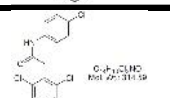
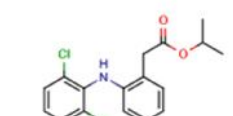
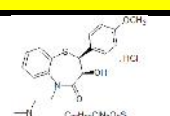
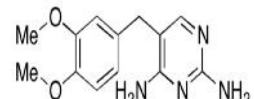
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Cyclophosphamide USP RC D	3-[2-(2-chloroethylamino)ethylamino]propyl dihydrogen phosphate dihydrochloride ; 9-Chloro-4,7-diazanonyl dihydrogenphosphate dihydrochloride ;	158401-51-5	C7H20Cl3N2O4 P	333.58	 C ₇ H ₂₀ Cl ₃ N ₂ O ₄ P Mol. Wt.: 333.58
Cyclophosphamide Impurity C	NA	NA	C7H15ClN2	162.66	
Cyclophosphamide Impurity E	3-Amino-1-propanol; 3-Aminopropyl alcohol; 1-Propanol, 3-amino-; 3-Aminopropan-1-ol; 3-Amino-1-propanol,3-Aminopropyl alcohol;	156-87-6	C3H9NO	75.11	
CYCLOBENZAPRINE					
Cyclobenzaprine USP RC A	3-(5-Hydroxy-5H-dibenzo[a,d]cyclohepten-5-yl)-N,N-dimethyl-propylamine ; 5-[3-(N,N-Dimethylamino)propyl]-5H-dibenzo[a,d]cyclohepten-5-ol ; 5-[3-(N,N-Dimethylamino)propyl]-dibenzosuberene-5-ol ;	18029-54-4	C20H23NO	293.40	 C ₂₀ H ₂₃ NO Mol. Wt.: 293.40
DABIGATRAN					
Dabigatran Impurity 1	N-[[2-[[[4-[[[(Hexyloxy)carbonyl]amino]carbonyl]phenyl]amino]methyl]-1-methyl-1H-benzimidazol-5-yl]carbonyl]-N-2-pyridinyl-?-alanine Ethyl Ester.	1408238-40-3	C34H40N6O6	628.72	
Dabigatran Impurity 2	Des-(N-2-pyridyl-?-alanine Ethyl Ester) Dabigatran Etexilate 5-Ethyl Carboxylate (Dabigatran Impurity);2-[[[4-[[[(Hexyloxy)carbonyl]amino]iminomethyl]phenyl]amino]methyl]-1-methyl-1H-benzimidazole-5-carboxylic Acid Ethyl Ester	1408238-36-7	C26H33N5O4	479.57	

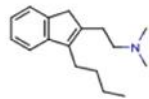
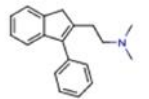
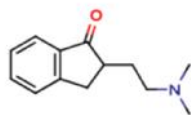
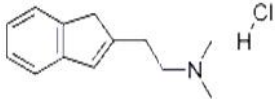
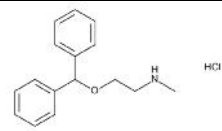
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Dabigatran Impurity 3	O-Desethyl Dabigatran Etexilate;3-(2-((4-(N-(hexyloxycarbonyl)carbamimidoyl)phenylamino)methyl)-1-methyl-N-(pyridin-2-yl)-1H-benzo[d]imidazole-5-carboxamido)propanoic acid;	212321-78-3	C32H37N7O5	599.68	
Dabigatran Impurity 4	Dabigatran JPBA Impurity 4(Mesylate Salt) ; Dabigatran Ethyl Ester Mesylate Salt ; 3-({2-[(4-Carbamidoyl-phenylamino)-methyl]-1-methyl-1H-benzoimidazole-5-carbonyl}-pyridin-2-yl-amino)-propionic acid ethyl ester mesylate ; ethyl 3-(2-(((4-carbamimidoylphenyl)amino)methyl)-1-methyl-N-(pyridin-2-yl)-1H-benzo[d]imidazole-5-carboxamido)propanoate;	429658-95-7	C27H29N7O3	499.58	
Dabigatran Methylamino Impurity	3-[(3-Amino-4-methyl amino-benzoyl)-pyridin-2-yl-amino] propanoic acid ethyl ester ;	212322-56-0	C18H22N4O3	342.39	 C ₁₈ H ₂₂ N ₄ O ₃ Mol. Wt.: 342.39
Dabigatran Ethyl Ester Cyano Analog	3-({2-[(4-Cyanophenylamino)-methyl]-1-methyl-1H-benzoimidazole-5-carbonyl}-pyridin-2-yl-amino)-propionic acid ethyl ester ;	211915-84-3	C27H26N6O3	482.53	 C ₂₇ H ₂₆ N ₆ O ₃ Mol. Wt.: 482.53
DARIFENACIN					
Darifenacin Impurity A	2-((R)-1-(2-(2,3-dihydrobenzofuran-5-yl)ethyl)pyrrolidin-3-yl)-2,2-diphenylacetic acid	1048979-16-3	C28H29NO3	427.55	

Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Darifenacin Oxidized Impurity	3-(2-(5-benzofuranyl)ethyl)-2,2-diphenylpyrrolidineacetamide, (S)- (9CI); (3S)-1-[2-(5-Benzofuranyl)ethyl]-2,2-diphenyl-3-pyrrolidineacetamide; (S)-2-[1-[2-(Benzofuran-5-yl)ethyl]-3-pyrrolidinyl]-2,2-diphenylacetamide;	133033-99-5	C ₂₈ H ₂₈ N ₂ O ₂	424.55	
DACARBAZINE					
Dacarbazine Related Compound A	5-aminoimidazole-4-carboxamide hydrochloride.	72-40-2	C ₄ H ₇ CIN ₄ O	162.58	
DEXTROMETHORPHAN					
Dextromethorphan Hydrobromide	(9S,13S,14S)-3-Methoxy-17-methylmorphinan hydrobromide.	125-69-9	C ₁₈ H ₂₅ NO	352.31	
DEXTRORPHAN					
Dextrorphan	(+)-3-Hydroxy-17-methylmorphinan, 1,3,4,9,10,10a-Hexahydro-6-hydroxy-2H-10,4a-(iminoethano)-11-methylphenanthrene.	125-73-5	C ₁₇ H ₂₃ NO	257.37	
DECITABINE					
Decitabine Triazinone	4-Amino-1,3,5-triazin-2(5H)-one ;	931-86-2	C ₃ H ₄ N ₄ O	112.09	

Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Desvenlafaxine N-Oxide	4-[2-(Dimethylamino)-1-(1-hydroxycyclohexyl)ethyl]phenol N-oxide ;	NA	C ₁₆ H ₂₅ NO ₃	279.37	 C ₁₆ H ₂₅ NO ₃ Mol. Wt.: 279.37
DESLORATADINE					
Desloratadine EP Impurity A	4-[(11RS)-8-chloro-11-fluoro-6,11-dihydro-5H-benzo [5,6] cyclohepta [1,2-b]pyridin-11-yl]piperidine ;	298220-99-2	C ₁₉ H ₂₀ ClFN ₂	330.83	 · 2 HCl
Desloratadine EP Impurity B	8-Chloro-6,11-dihydro-11-(1,2,3,6-tetrahydro-4-pyridinyl)-5H-benzo[5,6]cyclohepta[1,2-b]pyridine ;	183198-49-4	C ₁₉ H ₁₉ ClN ₂	310.82	 C ₁₉ H ₁₉ ClN ₂ Mol. Wt.: 310.82
Desloratadine USP RC F	8-Chloro-6,11-dihydro-11-(1-formyl-4-piperidin ylidene)-5H-benzo[5,6]cyclohepta[1,2-b] pyridine ;	117810-61-4	C ₂₀ H ₁₉ ClN ₂ O	338.83	 C ₂₀ H ₁₉ ClN ₂ O Mol. Wt.: 338.83
Desloratadine N-Acetyl Impurity	Desloratadine N-Acetyl Impurity ; N-Acetyl Desloratadine ;	117796-52-8	C ₂₁ H ₂₁ ClN ₂ O	352.13	
Desloratadine Deschloro Impurity	Desloratadine Deschloro Impurity ; 4-(5,6-Dihydro-11H-benzo[5,6]cyclohepta[1,2-b]pyridin-11-ylidene)-piperidine HCl ;	38092-95-4	C ₁₉ H ₂₀ N ₂	276.4	

Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
N-Methyl Desloratadine	8-Bromo-6,11-dihydro-11-(1-methyl-4-piperidinylidene)-5H-benzo[5,6] cyclohepta [1,2-b]pyridine ;	130642-57-8	C ₂₀ H ₂₁ BrN ₂	369.3	 C ₂₀ H ₂₁ BrN ₂ Mol. Wt.: 369.30
Desloratadine N-Hydroxy	8-Chloro-6,11-dihydro-11-(1-hydroxy-4-piperidinylidene)-5H-benzo[5,6]cyclohepta[1,2-b]pyridine;	1193725-73-3	C??H??ClN?O	326.82	
DICLOFENAC					
Diclofenac EP Impurity A	Diclofenac EP Impurity A ; Diclofenac USP Related Compound A ; Aceclofenac EP Impurity I ; Diclofenac Amide ; 1-(2,6-Dichlorophenyl)-1,3-dihydro-2H-indol-2-one ;	15362-40-0	C ₁₄ H ₉ Cl ₂ NO	278.13	
Diclofenac EP Impurity B	Diclofenac USP RC B ; 2-[(2,6-Dichlorophenyl)amino]benzaldehyde ;	22121-58-0	C ₁₃ H ₉ Cl ₂ NO	266.12	 C ₁₃ H ₉ Cl ₂ NO Mol. Wt.: 266.12
Diclofenac EP Impurity C	Diclofenac USP RC C ; [2-[(2,6-Dichlorophenyl)amino]phenyl]methanol ;	27204-57-5	C ₁₃ H ₁₁ Cl ₂ NO	268.14	 C ₁₃ H ₁₁ Cl ₂ NO Mol. Wt.: 268.14
Diclofenac EP Impurity E	Diclofenac USP RC E ; 1,3-Dihydro-2H-indol-2-one ;	59-48-3	C ₈ H ₇ NO	133.15	 C ₈ H ₇ NO Mol. Wt.: 133.15
Diclofenac Methyl Ester	2-[(2,6-Dichlorophenyl)amino]benzeneacetic Acid Methyl Ester; [o-(2,6-Dichloroanilino)phenyl]acetic Acid Methyl Ester; Methyl 2-(2,6-Dichloroanilino)phenylacetate;	15307-78-5	C ₁₅ H ₁₃ Cl ₂ NO ₂	310.18	

Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Diclofenac Ethyl Ester	2-[(2,6-Dichlorophenyl)amino]benzeneacetic Acid Ethyl Ester; [o-(2,6-Dichloroanilino)phenyl]acetic Acid Ethyl Ester; Ethyl 2-(2,6-Dichloroanilino)phenylacetate;	15307-77-4	C ₁₆ H ₁₅ Cl ₂ NO ₂	324.2	
Diclofenac Potassium	Diclofenac Potassium ; Potassium [2-[(2,6-dichlorophenyl)amino]phenyl]acetate ;	15307-81-0	C ₁₄ H ₁₀ Cl ₂ KNO ₂	334.24	
Diclofenac Sodium	Diclofenac Sodium ; Aceclofenac EP Impurity A ; Sodium 2-[(2,6-dichlorophenyl)amino]phenyl]acetate ;	15307-79-6	C ₁₄ H ₁₀ Cl ₂ NNaO ₂	318.13	
Diclofenac EP Impurity F	Diclofenac USP RC F ; N-(4-Chlorophenyl)-2-(2,6-dichlorophenyl)acetamide ;	560075-65-2	C ₁₄ H ₁₀ Cl ₃ NO	314.59	
Diclofenac Isopropyl Ester	Isopropyl [2-[(2,6 dichloro phenyl amino]phenyl]acetate; propan-2-yl 2-{2-[(2,6-dichlorophenyl)amino]phenyl}acetate	66370-79-4	C ₁₇ H ₁₇ Cl ₂ NO ₂	338.24	
DILTIAZEM					
Diltiazem EP Impurity F	O-Desacetyl Diltiazem HCl; (2S,3S)-5-[2-(Dimethylamino)ethyl]-2-(4-methoxyphenyl)-4-oxo-2,3,4,5-tetrahydro-1,5-benzothiazepin-3-ol HCl ;	42399-40-6	C ₂₀ H ₂₄ N ₂ O ₃ S	372.48	
DIAPERIDINE					
Diaveridine	2,4-Diamino-5-veratryl-pyrimidine; 2,4-Diamino-5-(3,4-dimethoxybenzyl)pyrimidine; 2,4-Diamino-5-veratrylpyrimidine; 5-[(3,4-Dimethoxyphenyl)methyl]-2,4-pyrimidinediamine; BW 49-210; Diaveridin;	5355-16-8	C ₁₃ H ₁₆ N ₄ O ₂	260.29	

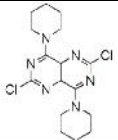
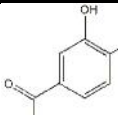
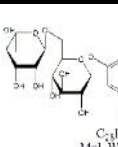
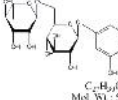
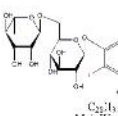
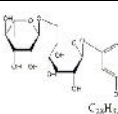
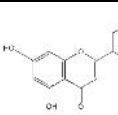
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
DIMETHINDENE					
Dimethindene Impurity F	2-(3-butyl-1H-inden-2-yl)-N,N-dimethylethanamine	NA	C ₁₇ H ₂₅ N	243.39	
Dimethindene Impurity G	Dimethyl[2-(3-phenyl-1H-inden-2-yl)ethyl]amine	NA	C ₁₉ H ₂₁ N	263.39	
2-[2-(Dimethylamino)Ethyl]-1-Indanone	2-[2-(Dimethylamino)ethyl]-2,3-dihydro-1H-inden-1-one;2-(2-(dimethylamino)ethyl)-2,3-dihydro-1H-inden-1-one	3409-21-0	C ₁₃ H ₁₇ NO	203.28	
N,N-Dimethyl-1H-Indene-2-Ethanamine Hydrochloride	N,N-Dimethylindene-2-ethanamine hydrochloride 2-(1H-Inden-2yl)-N,N-dimethylethanamine	92039-35-5	C ₁₃ H ₁₈ ClN	223.74	
DIPHENHYDRAMINE					
Diphenhydramine Related Compound A	Nordiphenhydramine Hydrochloride;	53499-40-4	C ₁₆ H ₁₉ NOClH	277.79	
DIPYRIDAMOLE					

Impurity Catalogue

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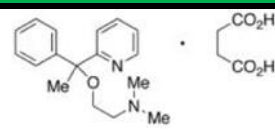
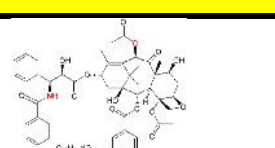
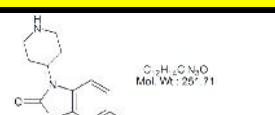
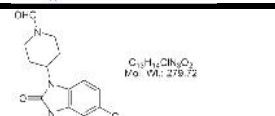
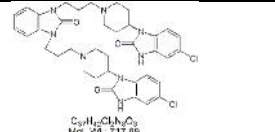


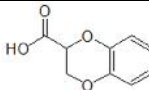
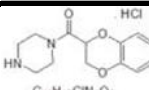
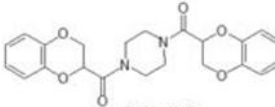
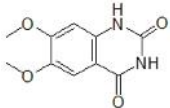
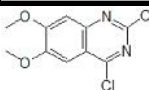
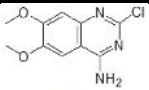
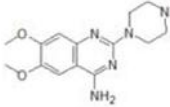
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Dipyridamole EP Impurity A	2,2?-[4,6,8-Tri(piperidin-1-yl) pyrimido [5,4-d] pyrimidin-2-yl]nitrilo]diethanol ;	16982-40-4	C25H40N8O2	484.64	
Dipyridamole EP Impurity B	Dipyridamole EP Impurity B ; Dipyridamole USP RC B ; 2,2',2'',2''',2''''-[8-(Piperidin-1-yl)pyrimido[5,4-d]pyrimidine-2,4,6-triyl]trinitrilo]hexaethanol ;	16908-47-7	C23H40N8O6	524.61	
Dipyridamole EP Impurity C	Dipyridamole USP RC C ; 2,2?-[2-Chloro-4,8-di(piperidin-1-yl)pyrimido[5,4-d]pyrimidin-6-yl]nitrilo]diethanol ;	54093-92-4	C20H30ClN7O2	435.95	
Dipyridamole EP Impurity D	Dipyridamole USP RC D ; 2,2-[[2-(2-Hydroxyethyl)amino-4,8-di(piperidin-1-yl)pyrimido[5,4-d]pyrimidin-6-yl]nitrilo]diethanol ;	1176886-12-6	C24H40N8O4	504.63	
Dipyridamole EP Impurity E	Dipyridamole EP Impurity E ; Dipyridamole USP RC E ; 2,4-Di[di(2-hydroxyethyl)amino]-6,8-di(piperidin-1-yl)-pyrimido[5,4-d]pyrimidine ;	NA	C24H40N8O4	504.63	
Dipyridamole EP Impurity F	Dipyridamole USP RC F ; 2,6-Di[di(2-hydroxyethyl)amino]-4-(2-hydroxyethyl)amino-8-(piperidin-1-yl)-pyrimido[5,4-d]pyrimidine ;	60286-30-8	C21H36N8O5	480.56	

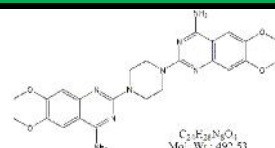
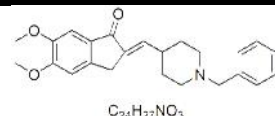
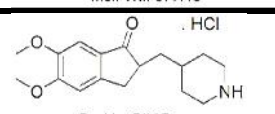
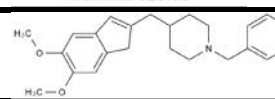
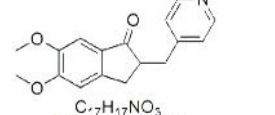
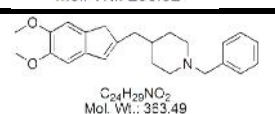
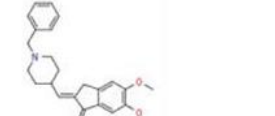
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Dipyridamole EP Impurity G	Dipyridamole EP Impurity G ; 2,6-Dichloro-4,8-di(piperidin-1-yl)-pyrimido[5,4-d]pyrimidine ;	7139-02-8	C ₁₆ H ₂₀ Cl ₂ N ₆	367.28	 C ₁₆ H ₂₀ Cl ₂ N ₆ Mol. Wt.: 367.28
DIOSMIN					
Diosmin EP Impurity A	1-(3-Hydroxy-4-methoxyphenyl)ethanone ;	6100-74-9	C ₉ H ₁₀ O ₃	166.17	 C ₉ H ₁₀ O ₃ Mol. Wt.: 166.17
Diosmin EP Impurity B	(2S)-7-[[6-O-(6-Deoxy-?-L-mannopyranosyl)-?-D-glucopyranosyl]oxy]-5-hydroxy-2-(3-hydroxy-4-methoxyphenyl)-2,3-dihydro-4H-1-benzopyran-4-one ;	520-26-3	C ₂₈ H ₃₄ O ₁₅	610.56	 C ₂₈ H ₃₄ O ₁₅ Mol. Wt.: 610.56
Diosmin EP Impurity C	7-[[6-O-(6-Deoxy-?-L-mannopyranosyl)-?-D-glucopyranosyl]oxy]-5-hydroxy-2-(4-hydroxyphenyl)-4H-1-benzopyran-4-one ;	552-57-8	C ₂₇ H ₃₀ O ₁₄	578.52	 C ₂₇ H ₃₀ O ₁₄ Mol. Wt.: 578.52
Diosmin EP Impurity D	7-[[6-O-(6-Deoxy-?-L-mannopyranosyl)-?-D-glucopyranosyl]oxy]-5-hydroxy-2-(3-hydroxy-4-methoxyphenyl)-6-iodo-4H-1-benzopyran-4-one ;	1431536-92-3	C ₂₈ H ₃₁ O ₁₅	734.44	 C ₂₈ H ₃₁ O ₁₅ Mol. Wt.: 734.44
Diosmin EP Impurity E	7-[[6-O-(6-Deoxy-?-L-mannopyranosyl)-?-D-glucopyranosyl]oxy]-5-hydroxy-2-(4-methoxyphenyl)-4H-1-benzopyran-4-one ;	480-36-4	C ₂₈ H ₃₂ O ₁₄	592.55	 C ₂₈ H ₃₂ O ₁₄ Mol. Wt.: 592.55
Diosmin EP Impurity F	5,7-Dihydroxy-2-(3-hydroxy-4-methoxyphenyl)-4H-1-benzopyran-4-one ;	520-34-3	C ₁₆ H ₁₂ O ₆	300.26	 C ₁₆ H ₁₂ O ₆ Mol. Wt.: 300.26

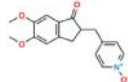
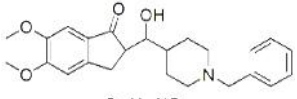
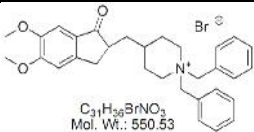
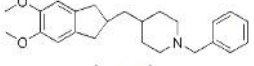
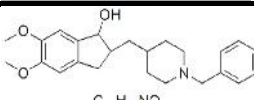
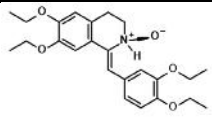
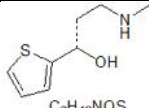


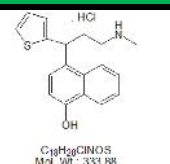
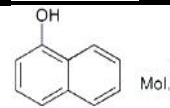
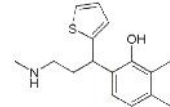
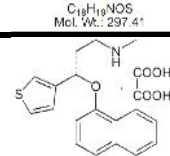
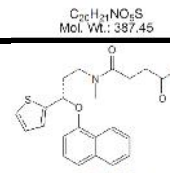
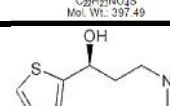
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
DIAZEPAM					
Diazepam EP Impurity C	3-Amino-6-chloro-1-methyl-4-phenyl-2(1H)-quinolone; USP Diazepam Related Compound B	5220-02-0	C ₁₆ H ₁₃ ClN ₂ O	287.47	
DICYCLOMINE					
Dicyclomine Impurity A	[1,1'-Bicyclohexyl]-1-carboxylic Acid;	60263-54-9	C ₁₃ H ₂₂ O ₂	210.31	
DORZOLAMIDE					
Dorzolamide EP Impurity A	Dorzolamide EP Impurity A ; Dorzolamide USP RC A ; ent-Dorzolamide HCl ; (4R,6R)-4-(Ethylamino)-6-methyl-5,6-dihydro-4H-thieno[2, 3-b]thiopyran-2-sulfonamide 7,7-dioxide HCl ;	120279-95-0	C ₁₀ H ₁₇ ClN ₂ O ₄ S ₃	360.90	 C ₁₀ H ₁₇ ClN ₂ O ₄ S ₃ Mol. Wt.: 360.90
Dorzolamide EP Impurity B	Dorzolamide EP Impurity B ; rac-cis Dorzolamide HCl ; (4RS,6SR)-4-(Ethylamino)-6-methyl-5,6-dihydro-4H-thieno[2, 3-b]thiopyran-2-sulfonamide 7,7-dioxide HCl ;	120279-37-0	C ₁₀ H ₁₇ ClN ₂ O ₄ S ₃	360.90	 and Enantiomer C ₁₀ H ₁₇ ClN ₂ O ₄ S ₃ Mol. Wt.: 360.90
Dorzolamide Related Compound D	(4S-trans)-4-Amino-5,6-dihydro-6-methyl-4H-thieno[2,3-b]thiopyran-2-sulfonamide 7,7-Dioxide; USP Dorzolamide Related Compound D; Dorzolamide EP Impurity D	164455-27-0	C ₈ H ₁₂ N ₂ O ₄ S ₃	332.8478	
DOXYLAMINE					

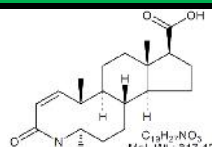
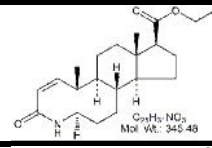
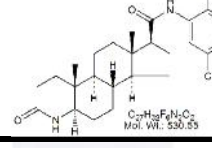
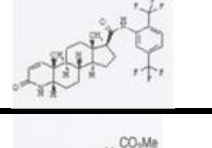
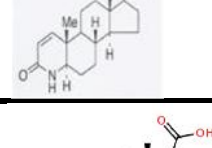
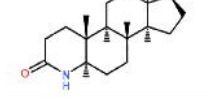
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Doxylamine Succinate	N,N-Dimethyl-2-[1-phenyl-1-(2-pyridinyl)ethoxy]ethanamine Succinate Salt; 2-[?-(2-Dimethylaminoethoxy)-?-methylbenzyl]pyridine Succinate; Alsodorm; Decamium; Decapryn Succinate; Gittalun; Hoggar N; Meraprina; Mereprine; NSC 74772; Sedaplus; Unisom;	562-10-7	C ₂₁ H ₂₈ N ₂ O ₅	388.46	
DOCETAXEL					
Docetaxel EP Impurity F	5?,20-Epoxy-1,7?-dihydroxy-9-oxotax-11-ene-2?,4,10?,13?-tetrayl 4,10-diacetate 2-benzoate 13-[(2R,3S)-3-(benzoylamino)-2-hydroxy-3-phenyl propanoate] ;	33069-62-4	C ₄₇ H ₅₁ NO ₁₄	853.91	
DOMPERIDONE					
Domperidone EP Impurity A	5-Chloro-1-(piperidin-4-yl)-1,3-dihydro-2H-benzimidazol-2-one ;	53786-28-0	C ₁₂ H ₁₄ ClN ₃ O	251.71	
Domperidone EP Impurity B	4-(5-Chloro-2-oxo-2,3-dihydro-1H-benzimidazol-1-yl)-1-formylpiperidine ;	1346598-11-5	C ₁₃ H ₁₄ ClN ₃ O ₂	279.72	
Domperidone EP Impurity F	1,3-bis[3-[4-(5-Chloro-2-oxo-2,3-dihydro-1H-benzimidazol-1-yl)piperidin-1-yl]propyl]-1,3-dihydro-2H-benzimidazol-2-one ;	1391053-55-6	C ₃₇ H ₄₂ Cl ₂ N ₈ O	717.69	
DOXAZOSIN					

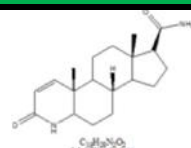
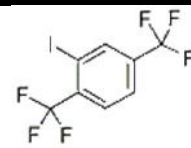
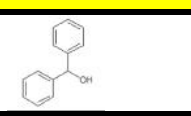
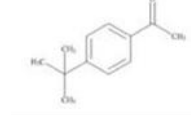
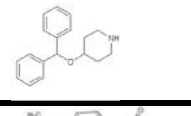

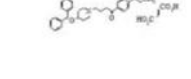
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Doxazosin EP Impurity A	Doxazosin EP Impurity A ; Doxazosin USP Related Compound D ; 1,4-Benzodioxan-2-carboxylic acid ;	3663-80-7	C ₉ H ₈ O ₄	180.16	 C ₉ H ₈ O ₄ Mol. Wt.: 180.16
Doxazosin EP Impurity B	Doxazosin EP Impurity B ; Doxazosin USP Related Compound A ; N-(1,4-Benzodioxane-2-carbonyl)piperazine hydrochloride ;	70918-74-0	C ₁₃ H ₁₆ N ₂ O ₃	248.28	 C ₁₃ H ₁₆ N ₂ O ₃ Mol. Wt.: 248.28
Doxazosin EP Impurity C	Doxazosin EP Impurity C ; Doxazosin USP Related Compound F ; N,N'-bis(1,4-Benzodioxane-2-carbonyl)piperazine ;	617677-53-9	C ₂₂ H ₂₂ N ₂ O ₆	410.42	 C ₂₂ H ₂₂ N ₂ O ₆ Mol. Wt.: 410.42
Doxazosin EP Impurity D	Doxazosin EP Impurity D ; Doxazosin USP Related Compound B ; 6,7-Dimethoxy-2,4-quinazolinedione ;	28888-44-0	C ₁₀ H ₁₀ N ₂ O ₄	222.2	 C ₁₀ H ₁₀ N ₂ O ₄ Mol. Wt.: 222.2
Doxazosin EP Impurity E	Doxazosin EP Impurity E ; Doxazosin USP Related Compound E ; 2,4-Dichloro-6,7-dimethoxyquinazoline ;	27631-29-4	C ₁₀ H ₈ Cl ₂ N ₂ O ₂	259.09	 C ₁₀ H ₈ Cl ₂ N ₂ O ₂ Mol. Wt.: 259.09
Doxazosin EP Impurity F	Doxazosin EP Impurity F ; Doxazosin USP Related Compound C ; 4-Amino-2-chloro-6,7-dimethoxyquinazoline ;	23680-84-4	C ₁₀ H ₁₀ ClN ₃ O ₂	239.66	 C ₁₀ H ₁₀ ClN ₃ O ₂ Mol. Wt.: 239.66
Doxazosin EP Impurity G	6,7-Dimethoxy-2-(piperazin-1-yl)quinazolin-4-amine ;	60547-97-9	C ₁₄ H ₁₉ N ₅ O ₂	289.33	 C ₁₄ H ₁₉ N ₅ O ₂ Mol. Wt.: 289.33

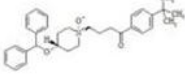
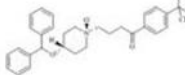



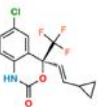
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Doxazosin EP Impurity H	2,2?-(Piperazine-1,4-diyl)bis(6,7-dimethoxyquinazolin-4-amine)	102839-00-9	C ₂₄ H ₂₈ N ₈ O ₄	492.53	 C ₂₄ H ₂₈ N ₈ O ₄ Mol. Wt.: 492.53
DONEPEZIL					
Donepezil USP RC A	Donepezil Dehydro Impurity ; (E)-Dehydro Donepezil ; (E)-2-[(1-Benzylpiperidin-4-yl)methylene]-5,6-dimethoxyindan-1-one ;	145546-80-1	C ₂₄ H ₂₇ NO ₃	377.48	 C ₂₄ H ₂₇ NO ₃ Mol. Wt.: 377.48
Donepezil Impurity A	Donepezil Desbenzyl Impurity ; Desbenzyl Donepezil Hydrochloride (USP) ; 5,6-Dimethoxy-2-(piperidin-4-ylmethyl) indan-1-one hydrochloride ;	120013-39-0	C ₁₇ H ₂₄ ClNO ₃	325.83	 C ₁₇ H ₂₄ ClNO ₃ Mol. Wt.: 325.83
Donepezil Impurity B	NA	NA	C ₂₄ H ₃₀ ClNO ₂	399.95	 C ₂₄ H ₃₀ ClNO ₂ Mol. Wt.: 399.95
Donepezil Pyridine Analog (USP)	5,6-Dimethoxy-2-(pyridin-4-ylmethyl)indan-1-one ;	4803-57-0	C ₁₇ H ₁₇ NO ₃	283.32	 C ₁₇ H ₁₇ NO ₃ Mol. Wt.: 283.32
Donepezil Dehydro Deoxy Impurity	1-Benzyl-4-[(5,6-dimethoxyinden-2-yl)methyl] piperidine ;	120013-45-8	C ₂₄ H ₂₉ NO ₂	363.49	 C ₂₄ H ₂₉ NO ₂ Mol. Wt.: 363.49
Donepezil impurity 1	1-Benzyl-4-[(5,6-dimethoxy-1-oxoindan-2-ylidene)methyl]piperidine; 1-Benzyl-4-[(5,6-dimethoxy-1-oxoindan-2-ylidene)methyl]piperidine (Donepezil Impurity);	120014-07-5	C ₂₄ H ₂₇ NO ₃	377.48	 C ₂₄ H ₂₇ NO ₃ Mol. Wt.: 377.48

Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Donepezil Pyridine N-Oxide	5,6-Dimethoxy-2-(1-oxido-pyridin-4-ylmethyl)indan-1-one ; 4-((5,6-dimethoxy-1-oxo-2,3-dihydro-1H-inden-2-yl)methyl)pyridine 1-oxide.	896134-07-9	C17H17NO4	299.32	
Donepezil Hydroxy Impurity	Hydroxy Donepezil (USP) ; 2-[(1-Benzylpiperidin-4-yl)(hydroxy)methyl]-5,6-dimethoxyindan-1-one ; Donepezil Hydroxy Keto Impurity.	197010-20-1	C24H29NO4	395.49	 C ₂₄ H ₂₉ NO ₄ Mol. Wt.: 395.49
Donepezil Benzyl Bromide	1,1-Dibenzyl-4-[(5,6-dimethoxy-1-oxoindan-2-yl)methyl]piperidinium bromide ;	844694-85-5	C31H36BrNO3	550.53	 C ₃₁ H ₃₆ BrNO ₃ Mol. Wt.: 550.53
Donepezil Deoxy Impurity	1-Benzyl-4-[(5,6-dimethoxyindan-2-yl)methyl] piperidine ;	844694-84-4	C24H31NO2	365.51	 C ₂₄ H ₃₁ NO ₂ Mol. Wt.: 365.51
Donepezil Dihydro Impurity	2,3-Dihydro-5,6-dimethoxy-2-[[1-(phenylmethyl)-4-piperidinyl]methyl]-1H-inden-1-ol ;	120012-04-6	C24H31NO3	381.51	 C ₂₄ H ₃₁ NO ₃ Mol. Wt.: 381.51
DROTAVERINE					
Drotaverine N-Oxide	NA	NA	C24H31NO5	413.51	
DULOXETINE					
Duloxetine EP Impurity B	(1S)-3-(Methylamino)-1-(thiophen-2-yl)propan-1-ol ;	116539-55-0	C8H13NOS	171.26	 C ₈ H ₁₃ NOS Mol. Wt.: 171.26

Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Duloxetine EP Impurity C	4-[(1RS)-3-(Methylamino)-1-(thiophen-2-yl)propyl]naphthalen-1-ol HCl ;	949096-01-9	C ₁₈ H ₁₉ NOS	297.41	 C ₁₈ H ₁₉ ClNOS Mol. Wt.: 333.88
Duloxetine EP Impurity D	Naphthalen-1-ol ;	90-15-3	C ₁₀ H ₈ O	144.17	 C ₁₀ H ₈ O Mol. Wt.: 144.17
Duloxetine EP Impurity E	2-[(1RS)-3-(Methylamino)-1-(thiophen-2-yl)propyl]naphthalen-1-ol ;	1033803-59-6	C ₁₈ H ₁₉ NOS	297.41	 C ₁₈ H ₁₉ NOS Mol. Wt.: 297.41
Duloxetine EP Impurity F	Duloxetine USP RC F ; Duloxetine 3-Thiophene Isomer ; (3S)-N-Methyl-3-(naphthalen-1-yloxy)-3-(thiophen-3-yl)propan-1-amine oxalate ;	104890-90-5	C ₂₀ H ₂₁ NO ₅ S	387.45	 C ₂₀ H ₂₁ NO ₅ S Mol. Wt.: 387.45
Duloxetine USP RC H	(S)-4-(Methyl[3-(naphthalen-1-yloxy)-3-(thiophen-2-yl)propyl]amino)-4-oxobutanoic acid ;	199191-66-7	C ₂₂ H ₂₃ NO ₄ S	397.49	 C ₂₂ H ₂₃ NO ₄ S Mol. Wt.: 397.49
Duloxetine Hydroxy Impurity	(S)-(-)-N,N-Dimethyl-3-hydroxy-3-(2-thienyl) propanamine ;	132335-44-5	C ₉ H ₁₅ NOS	185.29	 C ₉ H ₁₅ NOS Mol. Wt.: 185.29
DUTASTERIDE					

Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Dutasteride EP Impurity A	Finasteride Carboxylic Acid ; Dutasteride Carboxylic Acid ; 3-Oxo-4-aza-5 α -androst-1-ene-17 β -carboxylic acid ;	104239-97-6	C ₁₉ H ₂₇ NO ₃	317.42	 C ₁₉ H ₂₇ NO ₃ Mol. Wt.: 317.42
Dutasteride EP Impurity C	Ethyl 3-oxo-4-aza-5 α -androst-1-ene-17 β -carboxylate ;	157307-36-3	C ₂₁ H ₃₁ NO ₃	345.48	 C ₂₁ H ₃₁ NO ₃ Mol. Wt.: 345.48
Dutasteride Dihydro Impurity	(5 α ,17 β)-N-[2,5-Bis (trifluoromethyl)phenyl]-3-oxo-4-azaandrostane-17-carboxamide ;	164656-22-8	C ₂₇ H ₃₂ F ₆ N ₂ O 2	530.55	 C ₂₇ H ₃₂ F ₆ N ₂ O Mol. Wt.: 530.55
Dutasteride Beta Isomer	17 β -N-[2,5-bis (Trifluoromethyl)phenyl] Carbamoyl-4-aza-5 α -androst-1-en-3-one	NA	C ₂₇ H ₃₀ F ₆ N ₂ O ₂	528.53	
Dutasteride Ester Impurity	3-Oxo-4-aza-5 α -androst-1-ene-17 β -carboxylic Acid Methyl Ester	NA	C ₂₀ H ₂₉ NO ₃	331.45	
Dutasteride Impurity 1	4-Aza-5 α -androst-3-one-17 β -carboxylic acid.	103335-55-3	C ₁₉ H ₂₉ NO ₃	319.44	

Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Dutasteride Impurity 2	(4aR,6aS,7R,9bS)-2,4a,4b,5,6,6a,7,8,9,9a,9b,10,11,11a-tetradecahydro-4a,6a-dimethyl-2-oxo-1H-indeno[5,4-f]quinoline-7-carboxamide	NA	C ₁₉ H ₂₈ N ₂ O ₂	316.44	
Dutasteride Impurity 3	1,4-Bis(trifluoromethyl)-2-iodobenzene; alpha, alpha, alpha, alpha', alpha', alpha'-Hexafluoro-2-iodo-p-xylene.	328-92-7	C ₈ H ₃ F ₆ I	340	
EBASTINE					
Ebastine Impurity A	NA	90-01-0	C ₁₃ H ₁₂ O	184.2	
Ebastine Impurity B	1-[4-(1,1-Dimethylethyl)phenyl]ethanone; 4-tert-Butylacetophenone.	943-27-1	C ₁₂ H ₁₆ O	176.25	
Ebastine Impurity C	4-(diphenylmethoxy)piperidine	58258-01-8	C ₁₈ H ₂₁ NO	267.36	
Ebastine Impurity D	1-[4-(1,1-Dimethylethyl)phenyl]-4-(4-hydroxypiperidin-1-yl)butan-1-one, 1-[3-(4-tert-Butylbenzoyl)propyl]-4-hydroxypiperidine.	97928-18-2	C ₁₉ H ₂₉ NO ₂	303.44	
Ebastine Impurity E	Ebastine Related Compound E; (1-[4-(1,1-Dimethylpropyl)phenyl]-4-[4-(diphenylmethoxy)piperidin-1-yl]-butan-1-one fumarate).	NA	C ₃₇ H ₄₅ NO ₆	599.77	

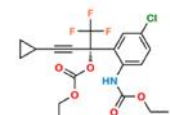
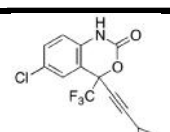
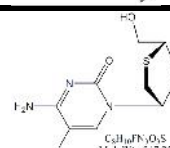
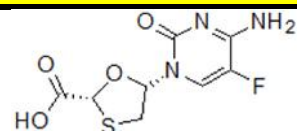
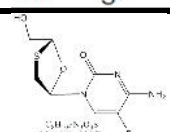
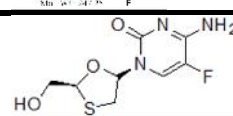
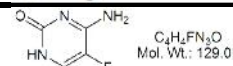
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Ebastine Impurity F	4-(benzhydryloxy)-1-(4-(4-(tert-butyl)phenyl)-4-oxobutyl)piperidine 1-oxide.	1256285-71-8	C32H39NO3	485.65	
Ebastine Impurity G	1-[4-(1,1-dimethylethyl)phenyl]-4-[trans-4-(diphenylmethoxy)-1-oxidopiperidin-1-yl]butan-1-one;Ebastine EP Impurity G; USP Ebastine Related Compound G	1429071-65-7	C32H39NO3	485.67	
EFAVIRENZ					
Efavirenz	NA	154598-52-4	C14H9ClF3NO2	315.7	
Efavirenz Enantiomer	(R)-6-Chloro-4-(cyclopropylethynyl)-1,4-dihydro-4-(trifluoromethyl)-2H-3,1-benzoxazin-2-one	NA	C14H9ClF3NO2	315.7	
Efavirenz Aminoalcohol	Efavirenz USP RC A ; Efavirenz Amino Alcohol (USP) ; (S)-2-(2-Amino-5-chlorophenyl)-4-cyclopropyl-1,1,1-trifluorobut-3-yn-2-ol ;	NA	C13H11ClF3NO	289.7	
Efavirenz Ethene Analog	Efavirenz USP RC B Efavirenz Ethene Analog (USP) ; (E)-Dihydro Efavirenz ; (S,E)-6-Chloro-4-(2-cyclopropylvinyl)-4-(trifluoromethyl)-2H-3,1-benzoxazin-2-one ;	440124-96-9	C14H11ClF3NO2	317.7	

Impurity Catalogue

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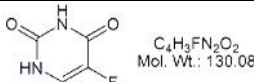
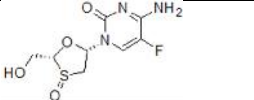
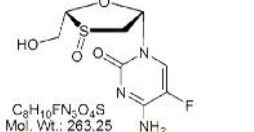
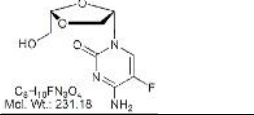
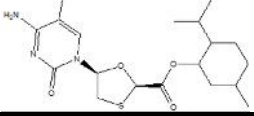
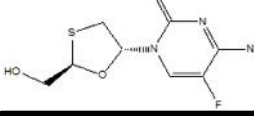
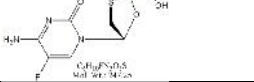
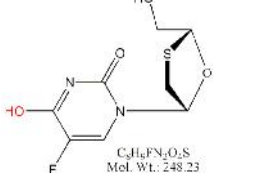
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Efavirenz Pent-3-Ene-1-Yne (Trans)	(Trans)-6-Chloro-4-(cyclopropylethynyl)-1,4-dihydro-4-(trifluoromethyl)-2H-3,1-benzoxazin-2-one	NA	C ₁₄ H ₉ ClF ₃ NO ₂	315.7	
Efavirenz Penteneyne	NA	NA	C ₁₄ H ₉ ClF ₃ NO ₂	315.7	
Efavirenz Pentyne Analog	NA	205755-86-8	C ₁₄ H ₁₁ ClF ₃ NO ₂	317.7	
Methylefavirenz	NA	1217623-65-8	C ₁₅ H ₁₁ ClF ₃ NO ₂	329.7	
Aminoalcohol Methyl Carbamate	NA	211563-40-5	C ₁₅ H ₁₃ ClF ₃ NO ₃	347.7	
N-Benzylefavirenz	NA	NA	C ₂₂ H ₁₇ ClF ₃ NO ₃	435.8	
Quinoline Analog	Efavirenz USP RC C ; Efavirenz Quinoline Analog (USP) ; 6-Chloro-2-cyclopropyl-4-(trifluoromethyl)quinoline ;	391860-73-4	C ₁₃ H ₉ ClF ₃ N	271.7	
Aminoalcohol Ethyl Carbamate	NA	211563-41-6	C ₁₆ H ₁₅ ClF ₃ NO ₃	361.7	

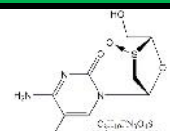
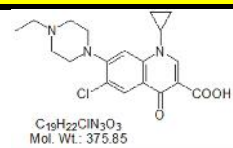
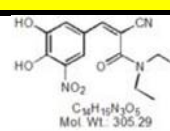
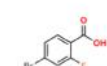
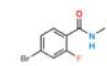
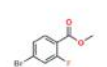
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Aminoalcohol Bis(Ethoxycarbonyl)	NA	NA	C ₁₉ H ₁₉ ClF ₃ NO ₅	433.8	
Rac Efavirenz	6-Chloro-4-(cyclopropylethynyl)-1,4-dihydro-4-(trifluoromethyl)-2H-3,1-benzoxazin-2-one;	177530-93-7	C ₁₄ H ₉ ClF ₃ NO ₂	315.67	
Emtricitabine	Emtricitabine ; 4-Amino-5-fluoro-1-[(2R,5S)-2-(hydroxymethyl)-1,3-oxathiolan-5-yl]-2-(1H)-pyrimidone ;	143491-57-0	C ₈ H ₁₀ FN ₃ O ₃ S	247.25	 C ₈ H ₁₀ FN ₃ O ₃ S Mol. Wt.: 247.23
EMTRICITABINE					
Emtricitabine IP Impurity A	Emtricitabine Carboxylic Acid ;(2R,5S)-5-(4-amino-5-fluoro-2-oxypyrimidin-1(2H)-yl)-1,3-oxathiolane-2-carboxylic acid	1238210-10-0	C ₈ H ₈ FN ₃ O ₄ S	261.23	
Emtricitabine IP Impurity B	Emtricitabine 5-Epimer ; 4-Amino-5-fluoro-1-[(2R,5R)-2-(hydroxymethyl)-1,3-oxathiolan-5-yl]-2-(1H)-pyrimidone ;	145986-26-1	C ₈ H ₁₀ FN ₃ O ₃ S	247.25	 C ₈ H ₁₀ FN ₃ O ₃ S Mol. Wt.: 247.23
Emtricitabine IP Impurity D	Emtricitabine Enantiomer ;4-amino-5-fluoro-1-((2S,5S)-2-(hydroxymethyl)-1,3-oxathiolan-5-yl)pyrimidin-2(1H)-one	137530-41-7	C ₈ H ₁₀ FN ₃ O ₃ S	247.25	
Emtricitabine IP Impurity E	5-Fluoro Cytosine ; 4-Amino-5-fluoropyrimidin-2(1H)-one ;	2022-85-7	C ₄ H ₄ FN ₃ O	129.09	 C ₄ H ₄ FN ₃ O Mol. Wt.: 129.09

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Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Emtricitabine IP Impurity F	5-Fluoro Uracil ; 5-Fluoropyrimidin-2,4(1H,3H)-dione ;	51-21-8	C ₄ H ₃ FN ₂ O ₂	130.08	 C ₄ H ₃ FN ₂ O ₂ Mol. Wt.: 130.08
Emtricitabine IP Impurity G	Emtricitabine S-Oxide (S)-Isomer ; 4-amino-5-fluoro-1-((2R,5S)-2-(hydroxymethyl)-3-oxido-1,3-oxathiolan-5-yl)pyrimidin-2(1H)-one	152128-77-3	C ₈ H ₁₀ FN ₃ O ₄ S	263.25	
Emtricitabine IP Impurity H	Emtricitabine S-Oxide (R)-Isomer ; 4-Amino-5-fluoro-1-[(2R,3R,5S)-2-(hydroxymethyl)-3-oxo-1,3-oxa-?4-thiolan-5-yl]pyrimidin-2(1H)-one ;	152128-77-3	C ₈ H ₁₀ FN ₃ O ₄ S	263.25	 C ₈ H ₁₀ FN ₃ O ₄ S Mol. Wt.: 263.25
Emtricitabine IP Impurity J	4-Amino-5-fluoro-1-[(2S,4S)-2-(hydroxymethyl)-1,3-dioxolan-4-yl]pyrimidin-2(1H)-one ;	NA	C ₈ H ₁₀ FN ₃ O ₄	231.18	 C ₈ H ₁₀ FN ₃ O ₄ Mol. Wt.: 231.18
Emtricitabine Methyl Ester Impurity	L-Menthyl 5-(2R,5S)-[4-amino-5-fluoro-2-oxopyrimidin-1(2H)-yl]-1,3-oxathiolane-2-carboxylate.	NA	C ₁₈ H ₂₆ FN ₃ O ₄ S	399.48	
Emtricitabine Diastereomer	4-amino-5-fluoro-1-[(2R,5R)-2-(hydroxymethyl)-1,3-oxathiolan-5-yl]pyrimidin-2(1H)-one	NA	C ₈ H ₁₀ FN ₃ O ₃ S	247.25	
Emtricitabine 2-Epimer	Emtricitabine 2-Epimer ; 4-Amino-5-fluoro-1-[(2S,5S)-2-(hydroxymethyl)-1,3-oxathiolan-5-yl]-2-(1H)-pyrimidone ;	145416-34-8	C ₈ H ₁₀ FN ₃ O ₃ S	247.25	 C ₈ H ₁₀ FN ₃ O ₃ S Mol. Wt.: 247.25
Emtricitabine 5-Fluorouracil Analog (USP)	Emtricitabine 4-Hydroxy Analog ; Emtricitabine 2,4-Dione Impurity ; 5-Fluoro-1-[(2R,5S)-2-(hydroxymethyl)-1,3-oxathiolane-5-yl]uracil ; cis-5-Fluoro-1-[2-(hydroxymethyl)-1,3-oxathiolan-5-yl]-2,4(1H,3H)-pyrimidinedione ;	145986-11-4	C ₈ H ₉ FN ₂ O ₄ S	248.23	 C ₈ H ₉ FN ₂ O ₄ S Mol. Wt.: 248.23

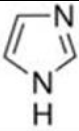

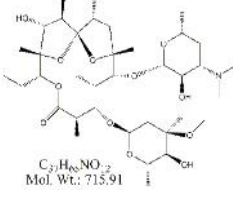
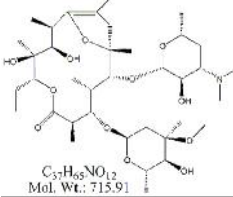
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Emtricitabine Sulfoxide	Emtricitabine Sulfoxide ; 4-Amino-5-fluoro-1-[(2R,5S)-2-(hydroxymethyl)-3-oxido-1,3-oxathiolan-5-yl]-2-(1H)-pyrimidone ;	152128-77-3	C8H10FN3O4S	263.35	
ENROFLOXACIN					
Enrofloxacin EP Impurity E	6-Chloro-1-cyclopropyl-7-(4-ethylpiperazin-1-yl)-4-oxo-1,4-dihydroquinoline-3-carboxylic acid ;	NA	C19H22ClN3O3	375.85	
ENTACAPONE					
Entacapone EP Impurity A	(2Z)-2-Cyano-3-(3,4-dihydroxy-5-nitrophenyl)-N,N-diethyl-2-propenamide ;	145195-63-7	C14H15N3O5	305.29	
ENZALUTAMIDE					
Enzalutamide EP Impurity A	4-Bromo-2-fluorobenzoic Acid ;	112704-79-7	C7H4BrFO2	219.01	
Enzalutamide EP Impurity B	4-Bromo-2-fluoro-N-methylbenzamide ;	749927-69-3	C8H7BrFNO	232.05	
Enzalutamide EP Impurity C	4-Bromo-2-fluorobenzoic Acid Methyl Ester ;	179232-29-2	C8H6BrFO2	233.03	
ENALAPRIL					

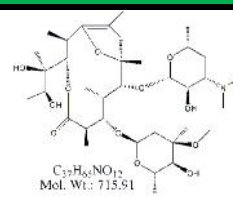
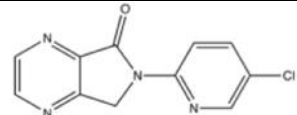
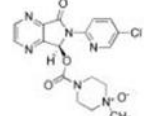
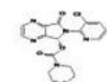
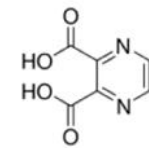
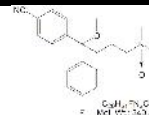
Impurity Catalogue

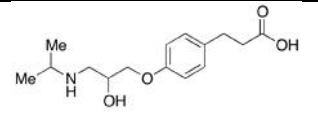
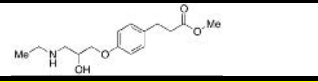
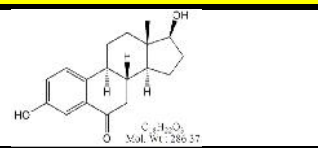
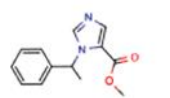
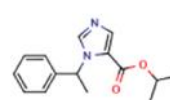
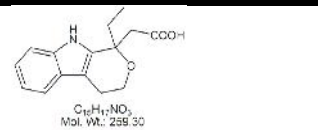
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Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Enalapril Impurity A	(2S)-1-[(2S)-2-[(1R)-1-(Ethoxycarbonyl)-3-phenylpropyl]amino]propanoyl]pyrrolidine-2-carboxylic acid HCl salt ;	1356932-13-2	C ₂₀ H ₂₉ ClN ₂ O ₅	412.91	 C ₂₀ H ₂₉ ClN ₂ O ₅ Mol. Wt.: 412.91
Enalapril EP Impurity B	Enalapril EP Impurity B ; Trandolapril ECPPA Impurity ; Ramipril EP Impurity F ; (2S)-2-[(1S)-1-(Ethoxycarbonyl)-3-phenylpropyl]amino]propanoic acid ;	82717-96-2	C ₁₅ H ₂₁ NO ₄	279.33	 C ₁₅ H ₂₁ NO ₄ Mol. Wt.: 279.33
Enalapril EP Impurity C	Enalapril EP Impurity C ; Enalaprilate ; Enalapril Diacid ; Enalaprilat Dihydrate ; (2S)-1-[(2S)-2-[(1S)-1-Carboxy-3-phenylpropyl]amino]propanoyl]pyrrolidine-2-carboxylic acid ;	84680-54-6	C ₁₈ H ₂₄ N ₂ O ₅	348.39	 C ₁₈ H ₂₄ N ₂ O ₅ Mol. Wt.: 348.39
Enalapril EP Impurity D	Ethyl (2S)-2-[(3S,8aS)-3-methyl-1,4-dioxooctahydropyrrolo [1,2-a]pyrazin-2-yl]-4-phenylbutanoate ;	115729-52-7	C ₂₀ H ₂₆ N ₂ O ₄	358.43	 C ₂₀ H ₂₆ N ₂ O ₄ Mol. Wt.: 358.43
Enalapril EP Impurity G	(2S)-2-[(1S)-3-Cyclohexyl-1-(ethoxycarbonyl)propyl]amino]propanoic acid ;	460720-14-3	C ₁₅ H ₂₇ NO ₄	285.38	 C ₁₅ H ₂₇ NO ₄ Mol. Wt.: 285.38
Enalapril EP Impurity H	Enalapril EP Impurity H ; Enalapril HCl Hexahydro Analog ; Enalapril HCl Cyclohexyl Analog ; (2S)-1-[(2S)-2-[(1S)-3-Cyclohexyl-1-(ethoxycarbonyl)propyl]amino]propanoyl]pyrrolidine-2-carboxylic acid HCl ;	NA	C ₂₀ H ₃₄ N ₂ O ₅	382.49	 C ₂₀ H ₃₄ ClN ₂ O ₅ Mol. Wt.: 418.96

Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Enalapril Impurity I	1,3-Diaza-2,4-cyclopentadiene, Glyoxaline	288-32-4	C3H4N2	68.08	
ERYTHROMYCIN					
Erythromycin	Erythromycin A ; (3R,4S,5S,6R,7R,9R,11R,12R,13S,14R)-4-[(2,6-Dideoxy-3-C-methyl-3-O-methyl-?-L-ribohexopyranosyl)oxy]-14-ethyl-7,12,13-trihydroxy-3,5,7,9,11,13-hexamethyl-6-[(3,4,6-trideoxy-3-dimethylamino-?-D-xylo-hexopyranosyl)oxy]oxacyclotetradecane-2,10-dione ;	114-07-8	C37H67NO13	733.93	 C ₃₇ H ₆₇ NO ₁₃ Mol. Wt.: 733.93
Erythromycin EP Impurity D	Anhydroerythromycin A ; (1S,2R,3R,4S,5R,8R,9S,10S,11R,12R,14R)-9-[(2,6-Dideoxy-3-C-methyl-3-O-methyl-?-L-ribohexopyranosyl)oxy]-5-ethyl-3-hydroxy-2,4,8,10,12,14-hexamethyl-11-[[3,4,6-trideoxy-3-(dimethylamino)-?-D-xylo-hexopyranosyl]oxy]-6,15,16-trioxatricyclo[10.2.1.11,4]hexadecan-7-one ;	23893-13-2	C37H65NO12	715.91	 C ₃₇ H ₆₅ NO ₁₂ Mol. Wt.: 715.91
Erythromycin EP Impurity E	Erythromycin A Enol Ether ; (2R,3R,4S,5R,8R,9S,10S,11R,12R)-9-[(2,6-Dideoxy-3-C-methyl-3-O-methyl-?-L-ribohexopyranosyl)oxy]-5-ethyl-3,4-dihydroxy-2,4,8,10,12,14-hexamethyl-11-[[3,4,6-trideoxy-3-(dimethylamino)-?-D-xylohexopyranosyl]oxy]-6,15-dioxabicyclo[10.2.1]pentadec-1(14)-en-7-one ;	33396-29-1	C37H65NO12	715.91	 C ₃₇ H ₆₅ NO ₁₂ Mol. Wt.: 715.91

Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Erythromycin EP Impurity F	Pseudoerythromycin A Enol Ether ; (2R,3R,6R,7S,8S,9R,10R)-7-[(2,6-Dideoxy-3-C-methyl-3-O-methyl-?-L-ribo-hexopyranosyl)oxy]-3-[(1R,2R)-1,2-dihydroxy-1-methylbutyl]-2,6,8,10,12-pentamethyl-9-[[3,4,6-trideoxy-3-(dimethylamino)-?-D-xylohexopyranosyl]oxy]-4,13-dioxabicyclo[8.2.1]tridec-1(12)-en-5-one ;	105882-69-7	C37H65NO12	715.91	 C ₃₇ H ₆₅ NO ₁₂ Mol. Wt.: 715.91
ESZOPICLONE					
Eszopiclone Impurity C	6-(5-Chloro-2-pyridinyl)-6,7-dihydro-5H-pyrrolo[3,4-b]pyrazin-5-one; Zopiclone EP Impurity C;	148891-53-6	C11H7ClN4O	246.66	
Eszopiclone N-Oxide Impurity	(S)-(+)-Zopiclone N-Oxide;	151851-70-6	C17H17ClN6O4	404.81	
Eszopiclone R-Isomer	(R)-6-(3-chloropyridin-2-yl)-6,7-dihydro-5-oxo-5H-pyrrolo[3,4-b]pyrazin-7-yl 4-methylpiperazine-1-carboxylate	NA	NA	NA	
Eszopiclone 2,3-Pyrazine Dicarboxylic Acid	2,3-Pyrazine dicarboxylic acid	NA	NA	NA	
ESCITALOPRAM					
EsCitalopram EP Impurity H	1-(3-Dimethylaminopropyl)-1-(4-fluorophenyl)-1,3-dihydroisobenzofuran-5-carbonitrile-N-oxide ;	63284-72-0	C20H21FN2O2	340.39	 C ₂₀ H ₂₁ FN ₂ O ₂ Mol. Wt.: 340.39

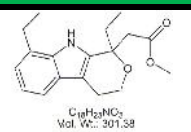
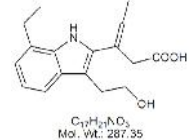
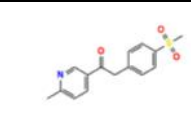
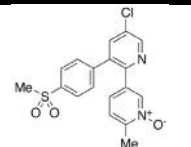
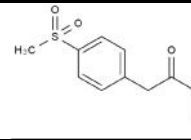
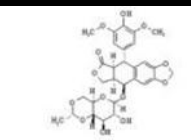
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
ESMOLOL					
Esmolol Acid	3-(4-(2-Hydroxy-3-(isopropylamino)propoxy)phenyl)propionic Acid; ASL 8123; 4-[2-Hydroxy-3-[(1-methylethyl)amino]propoxy]-benzenepropanoic Acid.	81148-15-4	C ₁₅ H ₂₃ NO ₄	281.35	
N-Ethyl Esmolol	Methyl 3-(4-(3-(ethylamino)-2-hydroxypropoxy)phenyl)propanoate.	NA	C ₁₅ H ₂₃ NO ₄	281.35	
ESTRADIOL					
Estradiol USP RC C	3,17?-Dihydroxyestra-1,3,5(10)-trien-6-one ;	571-92-6	C ₁₈ H ₂₂ O ₃	286.37	
ETOMIDATE					
Etomidate EP Impurity B	Etomidate EP Impurity B; 1-(1-Phenylethyl)-1H-imidazole Methyl Ester; Metomidate; methyl 1-[(1RS)-1-phenylethyl]-1H-imidazole-5-carboxylate;	5377-20-8	C ₁₃ H ₁₄ N ₂ O ₂	230.26	
Etomidate EP Impurity C	1-methylethyl 1-[(1RS)-1-phenylethyl]-1H-imidazole-5-carboxylate; Isopropyl 1-(1-phenylethyl)-1H-imidazole-5-carboxylate.	792842-51-4	C ₁₅ H ₁₈ N ₂ O ₂	258.32	
ETODOLAC					
Etodolac EP Impurity A	8-Desethyl Etodolac ; 2-[(1RS)-1-Ethyl-1,3,4,9-tetrahydropyrano[3,4-b]indol-1-yl]acetic acid ;	41339-67-7	C ₁₅ H ₁₇ NO ₃	259.30	

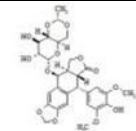
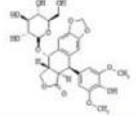
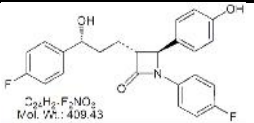
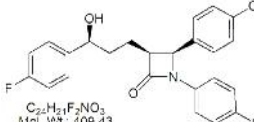
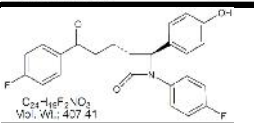
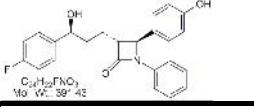
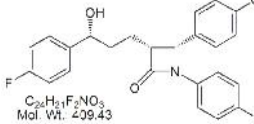
Impurity Catalogue

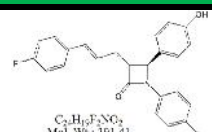
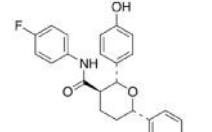
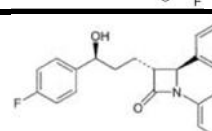
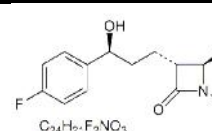
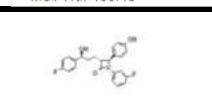
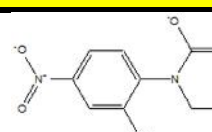
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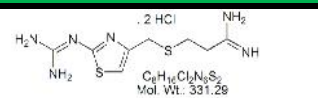
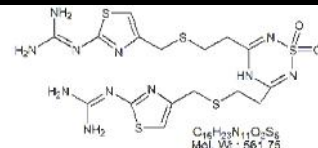
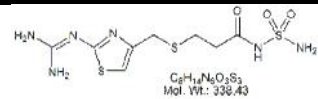
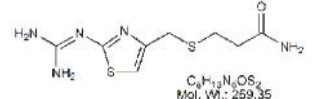
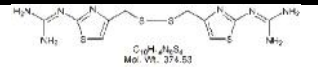
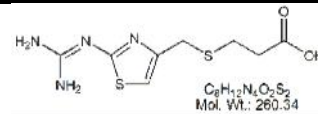
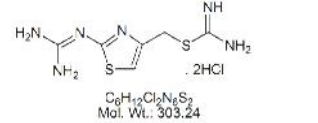
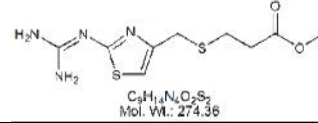
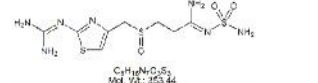


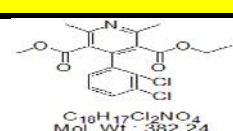
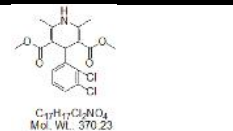
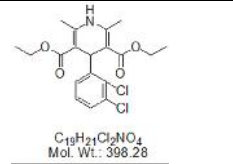
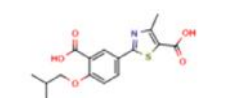
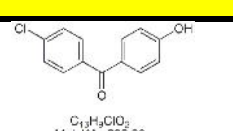
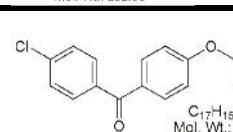
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Etodolac EP Impurity B	8-Methyl Etodolac ; 2-[(1RS)-1-Ethyl-8-methyl-1,3,4,9-tetrahydropyrano[3,4-b]indol-1-yl]acetic acid ;	41340-19-6	C ₁₆ H ₁₉ NO ₃	273.33	 C ₁₆ H ₁₉ NO ₃ Mol. Wt.: 273.33
Etodolac EP Impurity C	Etodolac USP RC A ; 1-Methyl Etodolac ; 2-[(1RS)-8-Ethyl-1-methyl-1,3,4,9-tetrahydropyrano[3,4-b]indol-1-yl]acetic acid ;	109518-50-5	C ₁₆ H ₁₉ NO ₃	273.33	 C ₁₆ H ₁₉ NO ₃ Mol. Wt.: 273.33
Etodolac EP Impurity D	8-Isopropyl Etodolac ; 2-[(1RS)-1-Ethyl-8-(1-methylethyl)-1,3,4,9-tetrahydropyrano[3,4-b]indol-1-yl]acetic acid ;	57917-63-2	C ₁₈ H ₂₃ NO ₃	301.38	 C ₁₈ H ₂₃ NO ₃ Mol. Wt.: 301.38
Etodolac EP Impurity E	8-Propyl Etodolac ; 2-[(1RS)-1-Ethyl-8-propyl-1,3,4,9-tetrahydropyrano[3,4-b]indol-1-yl]acetic acid ;	57817-27-3	C ₁₈ H ₂₃ NO ₃	301.38	 C ₁₈ H ₂₃ NO ₃ Mol. Wt.: 301.38
Etodolac EP Impurity F	1-Isopropyl Etodolac ; 2-[(1RS)-8-Ethyl-1-(1-methylethyl)-1,3,4,9-tetrahydropyrano[3,4-b]indol-1-yl]acetic acid ;	849630-65-5	C ₁₈ H ₂₃ NO ₃	301.38	 C ₁₈ H ₂₃ NO ₃ Mol. Wt.: 301.38
Etodolac EP Impurity G	1-Propyl Etodolac ; 2-[(1RS)-8-Ethyl-1-propyl-1,3,4,9-tetrahydropyrano[3,4-b]indol-1-yl]acetic acid ;	57816-83-8	C ₁₈ H ₂₃ NO ₃	301.38	 C ₁₈ H ₂₃ NO ₃ Mol. Wt.: 301.38
Etodolac EP Impurity J	Decarboxy Etodolac ; (1RS)-1,8-Diethyl-1-methyl-1,3,4,9-tetrahydropyrano[3,4-b]indole ;	115066-03-0	C ₁₆ H ₂₁ NO	243.34	 C ₁₆ H ₂₁ NO Mol. Wt.: 243.34

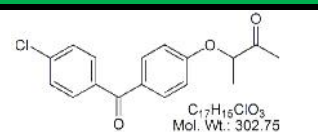
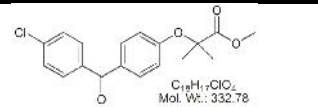
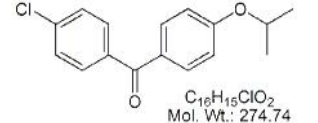
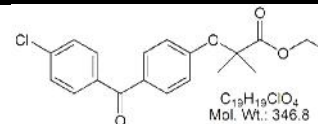
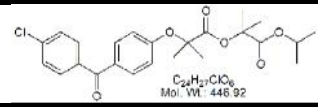
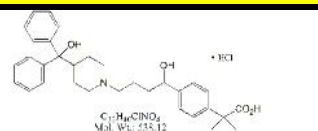
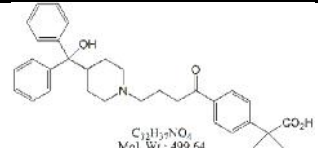
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Etodolac EP Impurity K	Etodolac Methyl Ester ; Methyl 2-[(1RS)-1,8-diethyl-1,3,4,9-tetrahydropyrano[3,4-b]indol-1-yl]acetate ;	122188-02-7	C ₁₈ H ₂₃ NO ₃	301.38	 C ₁₈ H ₂₃ NO ₃ Mol. Wt.: 301.38
Etodolac EP Impurity L	(EZ)-3-[7-Ethyl-3-(2-hydroxyethyl)-1H-indol-2-yl]pent-3-enoic acid ;	NA	C ₁₇ H ₂₁ NO ₃	287.35	 C ₁₇ H ₂₁ NO ₃ Mol. Wt.: 287.35
ETORICOXIB					
Etoricoxib Impurity D	Ketosulfone Impurity;1-(6-methylpyridin-3-yl)-2-(4-(methylsulfonyl)phenyl)ethan-1-one	221615-75-4	C ₁₅ H ₁₅ NO ₃ S	289.35	
Etoricoxib N1	5-Chloro-6-methyl-3-[4-(methylsulfonyl)phenyl]-2,3-bipyridine 1-Oxide;	325855-74-1	C ₁₈ H ₁₅ ClN ₂ O ₃ S	374.84	
Etoricoxib Impurity F	2-(4-Methanesulfonyl-phenyl)-1-(6-methyl-pyridin-3-yl)-ethanone;1-(6-Methylpyridin-3-yl)-2-[4-(methylsulfonyl)phenyl]ethanone;	221615-75-4	C ₁₅ H ₁₅ NO ₃ S	289.35	
ETOPOSIDE					
Etoposide Impurity B	NA	100007-56-5	C ₂₉ H ₃₂ O ₁₃	588.57	

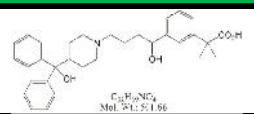
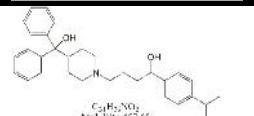
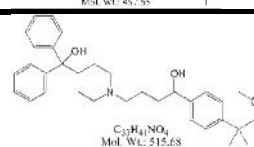
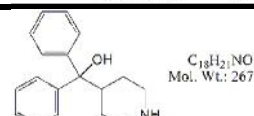
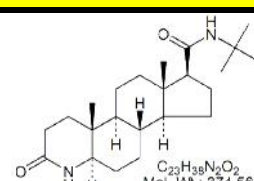
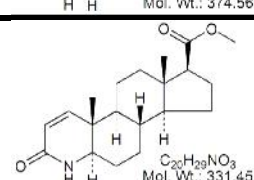
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Etoposide Impurity C	NA	100007-53-2	C ₂₉ H ₃₂ O ₁₃	588.57	
Etoposide Impurity D	NA	23363-35-1	C ₂₇ H ₃₀ O ₁₃	562.53	
EZETIMIBE					
Ezetimibe (RRS)-Isomer	(3R,4S)-1-(4-Fluorophenyl)-3-[(3R)-3-(4-fluorophenyl)-3-hydroxypropyl]-4-(4-hydroxyphenyl)azetidin-2-one ;	163380-16-3	C ₂₄ H ₂₁ F ₂ NO ₃	409.43	 C ₂₄ H ₂₁ F ₂ NO ₃ Mol. Wt.: 409.43
Ezetimibe (SSS)-Isomer	(3S,4S)-1-(4-Fluorophenyl)-3-[(3S)-3-(4-fluorophenyl)-3-hydroxypropyl]-4-(4-hydroxyphenyl)azetidin-2-one ;		C ₂₄ H ₂₁ F ₂ NO ₃	409.43	 C ₂₄ H ₂₁ F ₂ NO ₃ Mol. Wt.: 409.43
Ezetimibe Ketone (USP)	(3R,4S)-1-(4-Fluorophenyl)-3-[3-(4-fluorophenyl)-3-oxopropyl]-4-(4-hydroxyphenyl)-2-azetidinone ;	191330-56-0	C ₂₄ H ₁₉ F ₂ NO ₃	407.41	 C ₂₄ H ₁₉ F ₂ NO ₃ Mol. Wt.: 407.41
Ezetimibe Desfluoroaniline Analog (USP)	(3R,4S)-1-Phenyl-3-[(3S)-3-(4-fluorophenyl)-3-hydroxypropyl]-4-(4-hydroxyphenyl)-2-azetidinone ;	302781-98-2	C ₂₄ H ₂₂ FNO ₃	391.43	 C ₂₄ H ₂₂ FNO ₃ Mol. Wt.: 391.43
Ezetimibe (RRR)-Isomer	Ezetimibe (3'R, 3R, 4R)-Isomer ; (3R,4R)-1-(4-Fluorophenyl)-3-[(3R)-3-(4-fluorophenyl)-3-hydroxypropyl]-4-(4-hydroxyphenyl)azetidin-2-one ;	1593542-96-1	C ₂₄ H ₂₁ F ₂ NO ₃	409.43	 C ₂₄ H ₂₁ F ₂ NO ₃ Mol. Wt.: 409.43

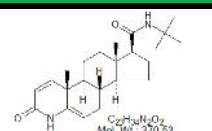
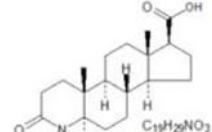
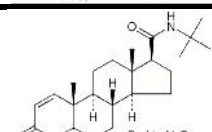
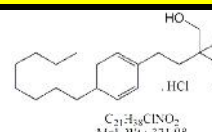
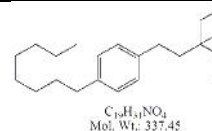
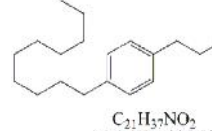
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Ezetimibe Anhydro (E)-Isomer	Ezetimibe (E)-Alkene ; (3R,4S)-1-(4-Fluorophenyl)-3-((E)-3-(4-fluorophenyl)allyl)-4-(4-hydroxyphenyl)azetidin-2-one ;	204589-68-4	C ₂₄ H ₁₉ F ₂ NO ₂	391.41	 C ₂₄ H ₁₉ F ₂ NO ₂ Mol. Wt.: 391.41
Ezetimibe Tetrahydropyran Impurity	(2R,3R,6S)-N,6-Bis(4-fluorophenyl)tetrahydro-2-(4-hydroxyphenyl)-2H-pyran-3-carboxamide	1296129-15-1	C ₂₄ H ₂₁ F ₂ NO ₃	409.43	
Ezetimibe Benzyl Impurity	(3R,4S)-1-(4-Fluorophenyl)-3-[(3S)-3-(4-fluorophenyl)-3-hydroxypropyl]-4-[4-(phenylmethoxy)phenyl]-2-azetidinone.	163222-32-0	C ₃₁ H ₂₇ F ₂ NO ₃	499.55	
Ezetimibe Meta-Fluoroaniline Analog (USP)	Ezetimibe m-Fluoroaniline Analog (USP) ; (3R,4S)-1-(3-Fluorophenyl)-3-[(3S)-3-(4-fluorophenyl)-3-hydroxypropyl]-4-(4-hydroxyphenyl)azetidin-2-one ;	NA	C ₂₄ H ₂₁ F ₂ NO ₃	409.43	 C ₂₄ H ₂₁ F ₂ NO ₃ Mol. Wt.: 409.43
Ezetimibe 3-Fluoro Impurity	Ezetimibe 3-Fluoro Impurity	1700622-06-5	C ₂₄ H ₂₁ F ₂ NO ₃	409.44	
EZO					
Ezogabine Impurity 1	Ethyl(2-amino-4-nitrophenyl)carbamate	1026685-07-3	C ₉ H ₁₀ N ₃ O ₄	224.19	
FAMOTIDINE					

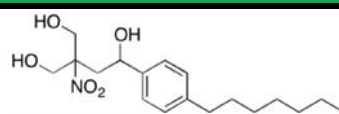
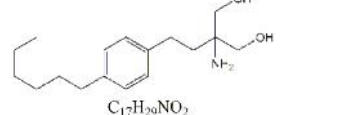
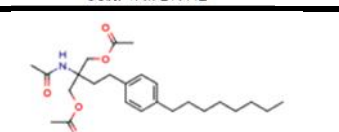
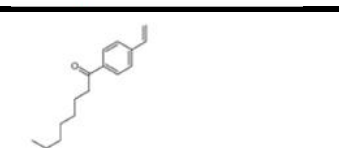
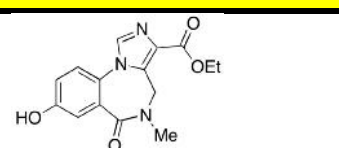
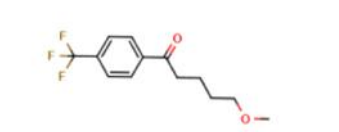
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Famotidine EP Impurity A	Famotidine USP RC A ; 3-[[[2-[(Diaminomethylene)amino]thiazol-4-yl]methyl]sulphonyl]propanimidamide dihydrochloride.	88061-72-7	C ₈ H ₁₆ Cl ₂ N ₆ S ₂	331.29	 C ₈ H ₁₆ Cl ₂ N ₆ S ₂ Mol. Wt.: 331.29
Famotidine EP Impurity B	3,5-bis[2-[[[2-[(Diaminomethylene)amino]thiazol-4-yl]methyl]sulphonyl]ethyl]-4H-1,2,4,6-thiatriazine 1,1-dioxide.	89268-62-2	C ₁₆ H ₂₃ N ₁₁ O ₂ S ₅	561.75	 C ₁₆ H ₂₃ N ₁₁ O ₂ S ₅ Mol. Wt.: 561.75
Famotidine EP Impurity C	Famotidine EP Impurity C ; 3-[[[2-[(Diaminomethylene)amino]thiazol-4-yl]methyl]sulphonyl]-N-sulphamoylpropanamide	76824-17-4	C ₈ H ₁₄ N ₆ O ₃ S ₃	338.43	 C ₈ H ₁₄ N ₆ O ₃ S ₃ Mol. Wt.: 338.43
Famotidine EP Impurity D	Famotidine USP RC D ; 3-[[[2-[(Diaminomethylene)amino]thiazol-4-yl]methyl]sulphonyl]propanamide.	76824-16-3	C ₈ H ₁₃ N ₄ O ₂ S ₂	259.35	 C ₈ H ₁₃ N ₄ O ₂ S ₂ Mol. Wt.: 259.35
Famotidine EP Impurity E	Famotidine EP Impurity E ; 2,2'-[Disulphanediylbis(methylenethiazole-4,2-diyl)]diguandine.	129083-44-9	C ₁₀ H ₁₄ N ₈ S ₄	374.53	 C ₁₀ H ₁₄ N ₈ S ₄ Mol. Wt.: 374.53
Famotidine EP Impurity F	Famotidine EP Impurity F ; 3-[[[2-[(Diaminomethylene)amino]thiazol-4-yl]methyl]sulphonyl]propanoic acid.	107880-74-0	C ₈ H ₁₂ N ₄ O ₂ S ₂	260.34	 C ₈ H ₁₂ N ₄ O ₂ S ₂ Mol. Wt.: 260.34
Famotidine Impurity H	Famotidine Isothiourea Impurity ; 2-((2-(Diaminomethyleneamino)thiazol-4-yl)methyl)isothiourea dihydrochloride ;	88046-01-9	C ₆ H ₁₂ Cl ₂ N ₆ S ₂	303.24	 C ₆ H ₁₂ Cl ₂ N ₆ S ₂ Mol. Wt.: 303.24
Famotidine EP Impurity J	Methyl 3-[[[2-[(diaminomethylidene)amino]thiazol-4-yl]methyl]sulfonyl]propanoate ;	76824-14-1	C ₉ H ₁₄ N ₄ O ₂ S ₂	274.36	 C ₉ H ₁₄ N ₄ O ₂ S ₂ Mol. Wt.: 274.36
Famotidine Sulfoxide	3-[[[2-[(Diaminomethylene)amino]thiazol-4-yl]methyl]sulfinyl]-N'-aminosulfonylpropanimidamide ;	90237-03-9	C ₈ H ₁₅ N ₇ O ₃ S ₃	353.44	 C ₈ H ₁₅ N ₇ O ₃ S ₃ Mol. Wt.: 353.44

Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
FELODIPINE					
Felodipine EP Impurity A	Dehydro Felodipine ; Ethyl methyl 4-(2,3-dichlorophenyl)-2,6-dimethylpyridine-3,5-dicarboxylate ;	96382-71-7	C ₁₈ H ₁₇ Cl ₂ NO ₄	382.24	 C ₁₈ H ₁₇ Cl ₂ NO ₄ Mol. Wt.: 382.24
Felodipine EP Impurity B	Felodipine Dimethyl Ester ; Dimethyl 4-(2,3-dichlorophenyl)-2,6-dimethyl-1,4-dihydropyridine-3,5-dicarboxylate ;	91189-59-2	C ₁₇ H ₁₇ Cl ₂ NO ₄	370.23	 C ₁₇ H ₁₇ Cl ₂ NO ₄ Mol. Wt.: 370.23
Felodipine EP Impurity C	Felodipine Diethyl Ester ; Nemadipine B ; Diethyl 4-(2,3-dichlorophenyl)-2,6-dimethyl-1,4-dihydropyridine-3,5-dicarboxylate ;	79925-38-5	C ₁₉ H ₂₁ Cl ₂ NO ₄	398.28	 C ₁₉ H ₂₁ Cl ₂ NO ₄ Mol. Wt.: 398.28
FEBUXOSTAT					
Febuxostat Impurity C	2-[3-Carboxy-4-(2-methylpropoxy)phenyl]-4-methyl-5-thiazolecarboxylic Acid;	1239233-87-4	C ₁₆ H ₁₇ NO ₅ S	335.37	
FENOFIBRATE					
Fenofibrate EP Impurity A	(4-Chlorophenyl)(4-hydroxyphenyl)methanone ;	42019-78-3	C ₁₃ H ₉ ClO ₂	232.66	 C ₁₃ H ₉ ClO ₂ Mol. Wt.: 232.66
Fenofibrate EP Impurity B	2-[4-(4-Chlorobenzoyl)phenoxy]-2-methylpropanoic acid ;	42017-89-0	C ₁₇ H ₁₅ ClO ₄	318.75	 C ₁₇ H ₁₅ ClO ₄ Mol. Wt.: 318.75

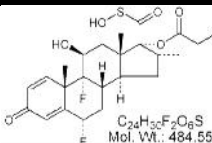
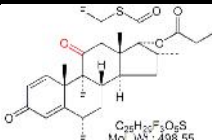
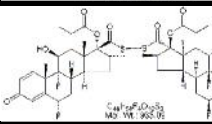
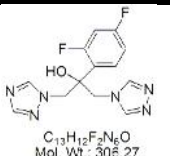
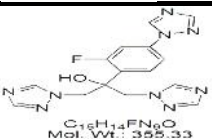
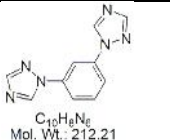
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Fenofibrate EP Impurity C	(3RS)-3-[4-(4-Chlorobenzoyl)phenoxy]butan-2-one ;	217636-47-0	C ₁₇ H ₁₅ ClO ₃	302.75	
Fenofibrate EP Impurity D	Fenofibrate Methyl Ester Analog ; Methyl 2-[4-(4-chlorobenzoyl)phenoxy]-2-methylpropanoate ;	42019-07-8	C ₁₈ H ₁₇ ClO ₄	332.78	
Fenofibrate EP Impurity F	(4-Chlorophenyl)[4-(1-methylethoxy)phenyl]methanone ;	154356-96-4	C ₁₆ H ₁₅ ClO ₂	274.74	
Fenofibrate EP Impurity E	Ethyl 2-[4-(4-chlorobenzoyl)phenoxy]-2-methylpropanoate ; Fenofibrate Ethyl Ester Analog ;	42019-08-9	C ₁₉ H ₁₉ ClO ₄	346.8	
Fenofibrate EP Impurity G	1-Methylethyl 2-[[2-[4-(4-chlorobenzoyl)phenoxy]-2-methylpropanoyl]oxy]-2-methylpropanoate ;	217636-48-1	C ₂₄ H ₂₇ ClO ₆	446.92	
FEXOFENADINE					
Fexofenadine HCl	2-[4-[(1RS)-1-Hydroxy-4-[4-(hydroxydiphenylmethyl)piperidin-1-yl]butyl]phenyl]-2-methylpropanoic acid hydrochloride ;	153439-40-8	C ₃₂ H ₄₀ ClNO ₄	538.12	
Fexofenadine EP Impurity A	Fexofenadine USP RC A ; Fexofenadinone ; 2-[4-[4-[4-(Hydroxydiphenylmethyl)piperidin-1-yl]butanoyl]phenyl]-2-methylpropanoic acid ;	76811-98-8	C ₃₂ H ₃₇ NO ₄	499.64	

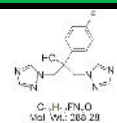
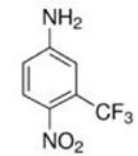
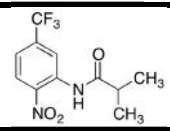
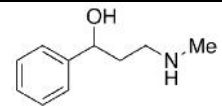
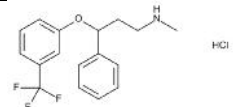
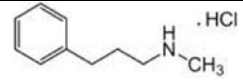
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Fexofenadine EP Impurity B	Fexofenadine USP RC B ; Meta-Fexofenadine ; 2-[3-[(1RS)-1-Hydroxy-4-[4-(hydroxydiphenylmethyl)piperidin-1-yl]butyl]phenyl]-2-methylpropanoic acid	479035-75-1	C32H39NO4	501.66	 C ₃₂ H ₃₉ NO ₄ Mol. Wt.: 501.66
Fexofenadine EP Impurity C	Fexofenadine USP RC C ; Decarboxy Fexofenadine ; (1RS)-4-[4-(Hydroxydiphenylmethyl)piperidin-1-yl]-1-[4-(1-methylethyl)phenyl]butan-1-ol ;	185066-37-9	C31H39NO2	457.65	 C ₃₁ H ₃₉ NO ₂ Mol. Wt.: 457.65
Fexofenadine EP Impurity D	Fexofenadine Methyl Ester ; Methyl 2-[4-[(1RS)-1-hydroxy-4-[4-(hydroxydiphenylmethyl)piperidin-1-yl]butyl]phenyl]-2-methylpropanoate ;	154825-96-4	C33H41NO4	515.68	 C ₃₃ H ₄₁ NO ₄ Mol. Wt.: 515.68
Fexofenadine EP Impurity E	Diphenyl(piperidin-4-yl)methanol ;	115-46-8	C18H21NO	267.37	 C ₁₈ H ₂₁ NO Mol. Wt.: 267.37
FINASTERIDE					
Finasteride EP Impurity A	Finasteride EP Impurity A ; Finasteride USP RC A ; Finasteride Dihydro Impurity ; 1,2-Dihydro Finasteride Impurity ; (5?,17?)-N-(1,1-Dimethylethyl)-3-oxo-4-aza-androstane-17-carboxamide ; 1,2-Dihydro Finasteride ;	98319-24-5	C23H38N2O2	374.56	 C ₂₃ H ₃₈ N ₂ O ₂ Mol. Wt.: 374.56
Finasteride EP Impurity B	Finasteride USP RC D ; Finasteride Methyl Ester Analog ; Dutasteride Methyl Ester Analog ; 3-Oxo-4-aza-5?-ndrost-1-ene-17?-carboxylic acid methyl ester ;	103335-41-7	C20H29NO3	331.45	 C ₂₀ H ₂₉ NO ₃ Mol. Wt.: 331.45

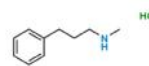
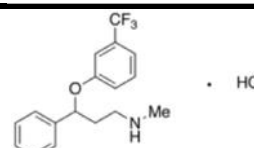
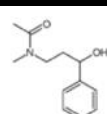
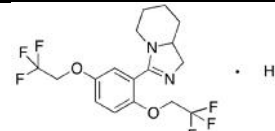
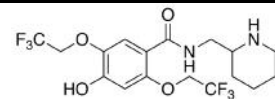
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Finasteride EP Impurity C	N-(1,1-Dimethylethyl)-3-oxo-4-azaandrosta-1,5-diene-17-carboxamide ;	1329611-51-9	C ₂₃ H ₃₄ N ₂ O ₂	370.53	 C ₂₃ H ₃₄ N ₂ O ₂ Mol. Wt.: 370.53
Finasteride Dihydro Carboxylic Acid	(5?,17?)-3-Oxo-4-aza-androstane-17-carboxylic acid ;	103335-55-3	C ₁₉ H ₂₉ NO ₃	319.44	 C ₁₉ H ₂₉ NO ₃ Mol. Wt.: 319.44
Finasteride	(5a,17b)-N-(1,1-Dimethylethyl)-3-oxo-4-aza-androst-1-ene-17-carboxamide ;	98319-26-7	C ₂₃ H ₃₆ N ₂ O ₂	372.54	 C ₂₃ H ₃₆ N ₂ O ₂ Mol. Wt.: 372.54
FINGOLIMOD					
Fingolimod N,N-Dimethyl Impurity	Fingolimod Dimethylamino Impurity ; 2-Dimethylamino-2-[2-(4-octylphenyl)ethyl]propane-1,3-diol HCl ;	1404433-87-9 (Base)	C ₂₁ H ₃₈ ClNO ₂	371.98	 C ₂₁ H ₃₈ ClNO ₂ Mol. Wt.: 371.98
Fingolimod Nitro Impurity	2-Nitro-2-[2-(4-octylphenyl)ethyl]propane-1,3-diol ;	374077-88-0	C ₁₉ H ₃₁ NO ₄	337.45	 C ₁₉ H ₃₁ NO ₄ Mol. Wt.: 337.45
Fingolimod Decyl Impurity	2-(4-Decylphenethyl)-2-aminopropane-1,3-diol ;	780729-32-0	C ₂₁ H ₃₇ NO ₂	335.52	 C ₂₁ H ₃₇ NO ₂ Mol. Wt.: 335.52

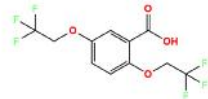
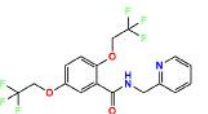
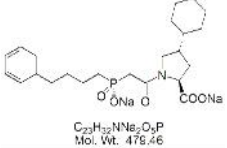
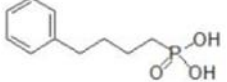
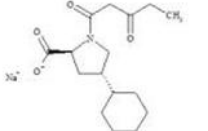
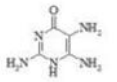
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Fingolimod Impurity 1	1-Hydroxy-3-nitrodeamino Fingolimod;-(Hydroxymethyl)-3-nitro-1-(4-octylphenyl)-1,4-butanediol;	899822-99-2	C ₁₉ H ₃₁ NO ₅	353.45	
Fingolimod Hexyl Impurity	2-(4-Hexylphenethyl)-2-aminopropane-1,3-diol ;	1201794-93-5	C ₁₇ H ₂₉ NO ₂	279.42	 C ₁₇ H ₂₉ NO ₂ Mol. Wt.: 279.42
Fingolimod Triacetylated	2-acetamido-2-(4-octylphenethyl)propane-1,3-diyl diacetate	162358-09-0	C ₂₅ H ₃₉ NO ₅	433.58	
Fingolimod Vinylphenyl	1-(4-vinylphenyl)octan-1-one	24993-87-1	C ₁₆ H ₂₂ O	230.34	
FLUMAZENIL					
Flumazenil Impurity B	Defluoro 8-Hydroxy Flumazenil (Impurity);5,6-Dihydro-8-hydroxy-5-methyl-6-oxo-4H-imidazo[1,5-a][1,4]benzodiazepine-3-carboxylic Acid Ethyl Ester; USP Flumazenil Related Compound B;	131666-45-0	C ₁₅ H ₁₅ N ₃ O ₄	301.3	
FLUVOXAMINE					
Fluvoxamine EP Impurity D	(4-Methoxybutyl)(4-trifluoromethylphenyl)methanone;5-methoxy-1-(4-(trifluoromethyl)phenyl)pentan-1-one;Fluvoxketone;Fluvoxamine Ketone Impurity.	61718-80-7	C ₁₃ H ₁₅ F ₃ O ₂	260.25	

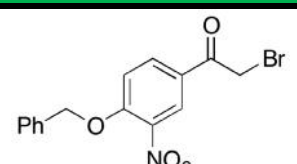
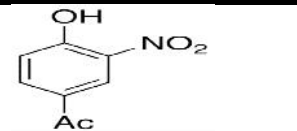
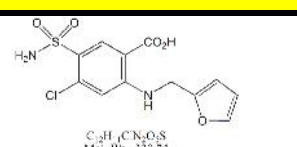
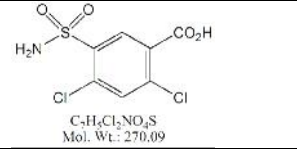
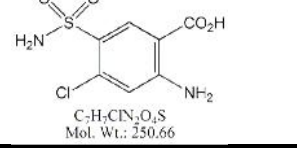
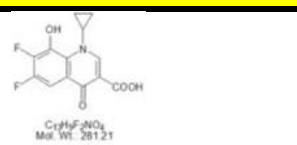


Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
FLUTICASONE					
Fluticasone USP RC A	Fluticasone EP Impurity B ;Fluticasone Sulfenic Acid Propionate ; [[6?,9-difluoro-11?-hydroxy-16?-methyl-3-oxo-17-(propanoyloxy) androsta-1,4-dien-17?-yl]carbonyl]sulphenic acid ;	948566-12-9	C24H30F2O6S	484.55	 C ₂₄ H ₃₀ F ₂ O ₆ S Mol. Wt.: 484.55
Fluticasone EP Impurity F	6?,9-Difluoro-17-[[[(fluoromethyl)sulphonyl]carbonyl]-16?-methyl-3,11-dioxoandrosta-1,4-dien-17?-yl] propanoate ;	1219174-94-3	C25H29F3O5S	498.55	 C ₂₅ H ₂₉ F ₃ O ₅ S Mol. Wt.: 498.55
Fluticasone EP Impurity H	17,17?-(Disulphanediyldicarbonyl)bis(6?,9-difluoro-11?-hydroxy-16?-methyl-3-oxoandrosta-1,4-dien-17?-yl) dipropanoate ;	201812-64-8	C48H58F4O10S2	935.09	 C ₄₈ H ₅₈ F ₄ O ₁₀ S ₂ Mol. Wt.: 935.09
FLUCONAZOLE					
Fluconazole EP Impurity A	Fluconazole Triazole Isomer ; (2RS)-2-(2,4-Difluorophenyl)-1-(1H-1,2,4-triazol-1-yl)-3-(4H-1,2,4-triazol-4-yl)propan-2-ol ;	89429-59-4	C13H12F2N6O	306.27	 C ₁₃ H ₁₂ F ₂ N ₆ O Mol. Wt.: 306.27
Fluconazole EP Impurity B	Fluconazole USP RC A ; 2-[2-Fluoro-4-(1H-1,2,4-triazol-1-yl)phenyl]-1,3-bis(1H-1,2,4-triazol-1-yl)propan-2-ol ;	871550-15-1	C15H14FN9O	355.33	 C ₁₅ H ₁₄ FN ₉ O Mol. Wt.: 355.33
Fluconazole EP Impurity C	Fluconazole USP RC C ; 1,1?-(1,3-Phenylene)di-1H-1,2,4-triazole ;	514222-44-7	C10H8N6	212.21	 C ₁₀ H ₈ N ₆ Mol. Wt.: 212.21

Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Fluconazole EP Impurity D	Fluconazole USP RC B ; 2-Desfluoro Fluconazole ; 2-(4-Fluorophenyl)-1,3-bis(1H-1,2,4-triazol-1-yl)propan-2-ol ;	81886-51-3	C ₁₃ H ₁₃ FN ₆ O	288.28	 C ₁₃ H ₁₃ FN ₆ O Mol. Wt.: 288.28
FLUTAMIDE					
Flutamide Impurity A	4-Nitro-3-(trifluoromethyl)aniline, 4-Nitro-?,?,?-trifluoro-m-toluidine, 5-Amino-2-nitrobenzotrifluoride.	393-11-3	O ₂ NC ₆ H ₃ (CF ₃)NH ₂	206.12	
O-Flutamide	2-methyl-N-[2-nitro-5-(trifluoromethyl)phenyl]-Propanamide;	151262-93-0	C ₁₁ H ₁₁ F ₃ N ₂ O ₃	276.21	
FLUOXETINE					
Fluoxetine EP Impurity A	N-Methyl-3-hydroxy-3-phenylpropylamine; 3-(Methylamino)-1-phenyl-1-propanol; 3-Hydroxy-N-methyl-3-phenylpropylamine; 3-Methylamino-1-phenylpropanol; N-(3-Hydroxy-3-phenylpropyl)methylamine; N-Methyl-3-hydroxy-3-phenylpropylamine; N-Methyl-3-phenyl-3-hydroxypropylamine; ?-[2-(Methylamino)ethyl]benzenemethanol; N-Methyl-N-(3-hydroxy-3-phenylprop	42142-52-9	C ₁₀ H ₁₅ NO	165.23	
Fluoxetine RC- A	(3RS)-N-Methyl-3-phenyl-3-[3-(trifluoromethyl)phenoxy]propan-1-amine Hydrochloride.	79088-29-2	C ₁₇ H ₁₈ F ₃ NOCl	345.79	
Fluoxetine - Impurity B	N-Methyl-3-phenylpropan-1-amine hydrochloride Fluoxetine hydrochloride impurity B Methyl-(3-phenylpropyl)amine (3-Phenylpropyl)methylamine	30684-07-2	C ₁₀ H ₁₅ NClH	185.69	

Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Fluoxetine USP RC B	N-Methylbenzenepropanamine; Methyl(3-phenylpropyl)amine; N-(3-Phenylpropyl)methylamine; N-Methyl-N-(3-phenylpropyl)amine.	23580-89-4	C ₁₀ H ₁₅ N	149.2	
Fluoxetine Impurity C	N-Methyl-3-[3-(trifluoromethyl)phenoxy]benzenepropanamine Hydrochloride; N-Methyl-3-phenyl-3-[(3,3,5-trifluoro-m-tolyl)oxy]propylamine Hydrochloride; USP Fluoxetine Related Compound A	79088-29-2	C ₁₇ H ₁₉ ClF ₃ NO	345.79	
Fluoxetine Impurity D	Acetamide, N-(3-hydroxy-3-phenylpropyl)-N-methyl.	851878-50-7	C ₁₂ H ₁₇ NO ₂	207.26	
FLECAINIDE					
Flecainide Impurity A	3-[2,5-bis(2,2,2-trifluoroethoxy)phenyl]-1,5,6,7,8,8a-hexahydroimidazo-[1,5a]pyridine Hydrochloride	NA	C ₂₂ H ₂₂ F ₆ N ₂ O ₄	396.33	
Flecainide EP Impurity C	4-Hydroxy Flecainide; 4-Hydroxy-N-(2-piperidinylmethyl)-2,5-bis(2,2,2-trifluoroethoxy)benzamide; (S)-4-Hydroxy-N-(2-piperidinylmethyl)-2,5-bis(2,2,2-trifluoroethoxy)benzamide;	152171-74-9	C ₁₇ H ₂₀ F ₆ N ₂ O ₄	430.34	

Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Flecainide Impurity D	2,5-bis(2,2,2-trifluoroethoxy)benzoic acid	35480-52-5	C ₁₁ H ₈ F ₆ O ₄	318.17	
Flecainide Impurity E	N-(pyridin-2-ylmethyl)-2,5-bis(2,2,2-trifluoroethoxy)benzamide	57415-36-8	C ₁₇ H ₁₄ F ₆ N ₂ O ₃	408.30	
FOSINOPRIL					
Fosinopril EP Impurity A	(4S)-4-Cyclohexyl-1-[2-[hydroxy(4-phenylbutyl)phosphinyl]acetyl]-L-proline disodium salt ;	95399-71-6	C ₂₃ H ₃₂ N ₂ O ₅ P	479.46	 C ₂₃ H ₃₂ N ₂ O ₅ P Mol. Wt. 479.46
Fosinopril Impurity G	4-Phenylbutyl phosphonic acid ;	46348-61-2	C ₁₀ H ₁₅ O ₃ P	214.2	 C ₁₀ H ₁₅ O ₃ P Mol. Wt. 214.2
Fosinopril Impurity H	Fosinopril Impurity H Sodium Salt	149760-14-5	C ₁₆ H ₂₄ NO ₄	294.37	
Folic Acid Impurity B	2,5,6-triaminopyrimidin-4(1H)-one	1004-75-7	C ₄ H ₇ N ₅ O	141.13	

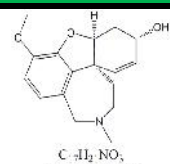
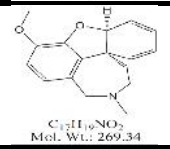
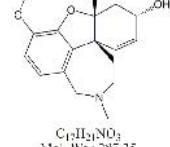
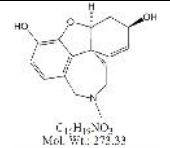
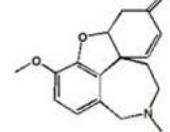
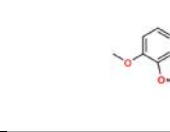
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
1-(4-(Benzyloxy)-3-Nitrophenyl)-2-Bromoethanone	2-Bromo-1-[3-nitro-4-(phenylmethoxy)phenyl]Ethanone; 1-(Benzyloxy)-2-nitro-4-(2-bromoacetyl)benzene; 2-Bromo-1-(3-nitro-4-benzyloxyphenyl)ethanone;	43229-01-2	C ₁₅ H ₁₂ BrNO ₄	350.16	
Formoterolfumarate	3-Nitro-4-hydroxyacetophenone; 4-Acetyl-2-nitrophenol; 4-Hydroxy-3-nitroacetophenone; 1-(4-Hydroxy-3-nitrophenyl)ethanone; 2-Nitro-4-acetylphenol;	6322-56-1	C ₈ H ₇ NO ₄	181.15	
FUROSEMIDE					
Furosemide	4-Chloro-2-[(furan-2-ylmethyl)amino]-5-sulfamoylbenzoic acid ; 5-(Aminosulfonyl)-4-chloro-2-[(2-furanyl-methyl)amino]benzoic Acid ;	54-31-9	C ₁₂ H ₁₁ ClN ₂ O ₅ S	330.74	
Furosemide EP Impurity B	2,4-Dichloro-5-sulfamoylbenzoic Acid ; 3-Sulfamoyl-4,6-dichlorobenzoic acid ;	2736-23-4	C ₇ H ₅ Cl ₂ NO ₄ S	270.09	
Furosemide EP Impurity C	Saluamine ; 2-Amino-4-chloro-5-sulfamoylbenzoic acid ; 4-Chloro-5-sulfamoyl-anthranilic Acid ;	3086-91-7	C ₇ H ₇ ClN ₂ O ₄ S	250.66	
GATIFLOXACIN					
Gatifloxacin USP Impurity B	1-Cyclopropyl-6,7-difluoro-8-hydroxy-4-oxo-1,4-dihydroquinoline-3-carboxylic acid ;	154093-72-8	C ₁₃ H ₉ F ₂ NO ₄	281.21	

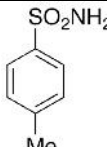
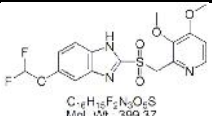
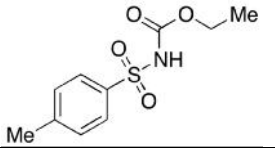
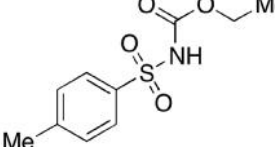
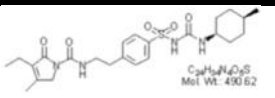
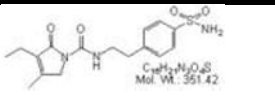
Impurity Catalogue

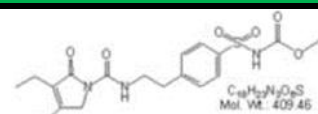
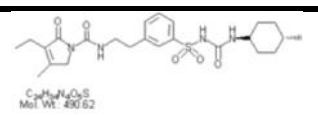
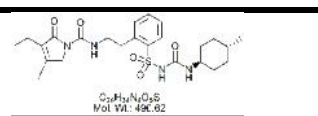
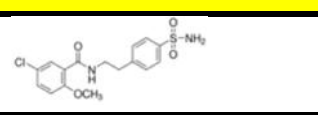
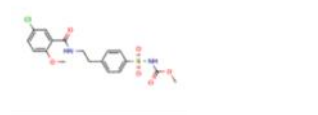
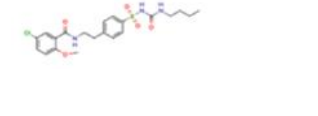
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Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Gatifloxacin Impurity-1	1-Cyclopropyl-6,7-difluoro-1,4-dihydro-8-hydroxy-4-oxo-3-quinoline carboxylic acid	NA	C ₁₃ H ₉ F ₂ NO ₄	281.21	
Desmethyl Gatifloxacin	1-Cyclopropyl-6-fluoro-1,4-dihydro-8-hydroxy-7-(3-methyl-1-piperazinyl)-4-oxo-3-quinolinecarboxylic Acid; Gatifloxacin Impurity A;	616205-76-6	C ₁₈ H ₂₀ FN ₃ O ₄	361.37	
Gatifloxacin Impurity-2	3,4-Dimethyl piperazine derivative	144633-98-7	C ₂₀ H ₂₄ FN ₃ O ₄	389.18	
GANCICLOVIR					
Ganciclovir	2-Amino-9-[[2-hydroxy-1-(hydroxymethyl)ethoxy]methyl]-1,9-dihydro-6H-purin-6-one ;	82410-32-0	C ₉ H ₁₃ N ₅ O ₄	255.23	
GABAPENTIN					
Gabapentin EP Impurity A	3-Azaspiro-[4,5]decan-3-one ; 3,3-Pentamethylene-5-butyrolactam ; 4,4-Pentamethylene-2-pyrrolidinone ;	64744-50-9	C ₉ H ₁₅ NO	153.22	
Gabapentin EP Impurity B	(1-Cyanocyclohexyl)acetic acid	133481-09-1	C ₉ H ₁₃ NO ₂	167.21	
GALANTAMINE					

Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Galantamine EP Impurity B	(4aS,6S,8aS)-3-Methoxy-11-methyl-5,6,9,10,11,12-hexahydro-4aH-[1]benzofuro[3a,3,2-ef][2]benzazepin-6-ol ;	1668-85-5	C ₁₇ H ₂₁ NO ₃	287.35	 C ₁₇ H ₂₁ NO ₃ Mol. Wt.: 287.35
Galantamine EP Impurity D	(4aS,8aS)-3-Methoxy-11-methyl-9,10,11,12-tetrahydro-4aH-[1]benzofuro[3a,3,2-ef][2]benzazepine ;	664995-65-7	C ₁₇ H ₁₉ NO ₂	269.34	 C ₁₇ H ₁₉ NO ₂ Mol. Wt.: 269.34
Galantamine EP Impurity F	(4aR,6S,8aR)-3-Methoxy-11-methyl-5,6,9,10,11,12-hexahydro-4aH-[1]benzofuro[3a,3,2-ef][2]benzazepin-6-ol ;	60384-53-4	C ₁₇ H ₂₁ NO ₃	287.35	 C ₁₇ H ₂₁ NO ₃ Mol. Wt.: 287.35
Galantamine O-Desmethyl Impurity	(4aS,6R,8aS)-4a,5,9,10,11,12-Hexahydro-11-methyl-6H-benzofuro[3a,3,2-ef][2]benzazepine-3,6-diol ;	60755-80-8	C ₁₆ H ₁₉ NO ₃	273.33	 C ₁₆ H ₁₉ NO ₃ Mol. Wt.: 273.33
Galantamine Impurity Racemic Narwedine	(4aRS,6S,8aRS*)-4a,5,9,10,11,12-hexahydro-3-methoxy-11-methyl-6H-benzofuro[3a,3,2-ef][2]benzazepin-6-one	NA	C ₁₇ H ₁₉ NO ₃	285.34	
Galantamine N-Oxide	(4aS,6R,8aS,11R)-4a,5,9,10,11,12-Hexahydro-3-methoxy-11-methyl-6H-benzofuro[3a,3,2-ef][2]benzazepin-6-ol 11-Oxide; Nivalin-oxide; Galanthamine 10-Oxide; Galanthamine ?-N-oxide.	134332-50-6	C ₁₇ H ₂₁ NO ₄	303.4	
GLICLAZIDE					

Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Gliclazide Impurity A	4-Tolylsulfonamide; p-Toluenesulfonamide; 4-Methylbenzene-1-sulfonamide; 4-Methylbenzenesulfonamide	70-55-3	C7H9NO2S	171.22	
Gliclazide Impurity B	N-Nitroso-3-azabicyclo[3.3.0]octane; Octahydro-2-nitrosocyclopenta[c]pyrrole	54786-86-6	C7H12N2O	140.18	 C ₇ H ₁₂ F ₂ N ₂ O ₂ S Mol. Wt. 389.37
Gliclazide Impurity C	Tosylurethane; Ethyl (p-Toluenesulfonyl) carbamate; Ethyl (p-Tolylsulfonyl) carbamate	5577-13-9	C10H13NO4S	243.28	
Gliclazide Impurity F	ortho Gliclazide; 1-(3-Azabicyclo[3.3.0]oct-3-yl)-3-ortho-tolylsulphonylurea; ortho Gliclazide Impurity	1076198-18-9	C15H21N3O3S	323.41	
GLIMEPIRIDE					
Glimepiride EP Impurity A	Glimepiride BP Impurity A ; Glimepiride USP Related Compound A ; Glimepiride cis Isomer ; 1-[4-[2-(3-Ethyl-4-methyl-2-oxo-3-pyrroline-1-carboxamido) ethyl] phenylsulfonyl]-3-(4-cis-methylcyclohexyl)urea ;	684286-46-2	C24H34N4O5S	490.62	 C ₂₄ H ₃₄ N ₄ O ₅ S Mol. Wt. 490.62
Glimepiride EP Impurity B	Glimepiride BP Impurity B ; Glimepiride Sulfonamide ; Glimepiride USP Related Compound B ; [4-[2-(3-Ethyl-4-methyl-2-oxo-3-pyrroline-1-carboxamido) ethyl] phenyl] sulfonamide ;	119018-29-0	C16H21N3O4S	351.42	 C ₁₆ H ₂₁ N ₃ O ₄ S Mol. Wt. 351.42

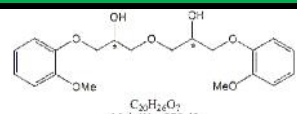
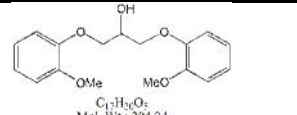
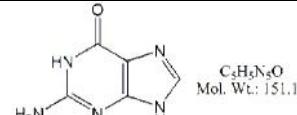
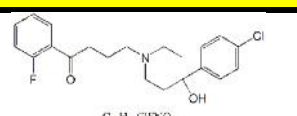
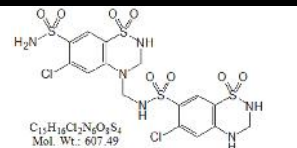
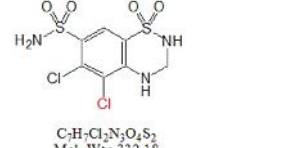
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Glimepiride EP Impurity C	Glimepiride BP Impurity C ; Glimepiride USP Related Compound C ; Glimepiride Ester ; 1-[[p-[2-(3-Ethyl-4-methyl-2-oxo-3-pyrroline-1-carboxamido) ethyl]phenyl]sulfonyl]-methoxy carbamate ;	119018-30-3	C ₁₈ H ₂₃ N ₃ O ₆ S	409.46	 C ₁₈ H ₂₃ N ₃ O ₆ S Mol. Wt. 409.46
Glimepiride EP Impurity D	Glimepiride BP Impurity D ; Glimepiride USP Related Compound D ; Glimepiride meta Isomer ; Glimepiride 3-Isomer ; 1-[[m-[2-(3-Ethyl-4-methyl-2-oxo-3-pyrroline-1-carboxamido) ethyl]phenyl]sulfonyl]-3-(trans-4-methylcyclohexyl)urea.	791104-62-6	C ₂₄ H ₃₄ N ₄ O ₅ S	490.62	 C ₂₄ H ₃₄ N ₄ O ₅ S Mol. Wt. 490.62
Glimepiride EP Impurity I	Glimepiride ortho Isomer ; 1-[2-[2-(3-Ethyl-4-methyl-2-oxo-3-pyrroline-1-carboxamido) ethyl] phenylsulfonyl]-3-(4-methylcyclohexyl)urea ;	878480-70-7	C ₂₄ H ₃₄ N ₄ O ₅ S	490.62	 C ₂₄ H ₃₄ N ₄ O ₅ S Mol. Wt. 490.62
GLIBENCLAMIDE					
Glibenclamide Impurity A	4-[2-(5-Chloro-2-methoxybenzamido)ethyl]phenylsulfonamide, 5-Chloro-2-methoxy-N-[2-(4-sulfamoylphenyl)ethyl]benzamide.	16673-34-0	C ₁₆ H ₁₃ (OCH ₃) CONHCH ₂ C ₆ H ₄ SO ₂ NH ₂	368.84	
Glibenclamide EP Impurity B	21691-432-methoxybenzoyl)amino)ethyl)phenyl)sulfonyl)-, methyl ester;	21165-77-5	C ₁₈ H ₁₉ CIN ₂ O ₆ S	426.87	
Glibenclamide Imp D (EP)	N-[4-[(2-Methoxyonyl]-N-butylurea; N-[2-[4-[[[(Butylamio)lfonyl]phenyl]ethyl]-5-chloro-2-methoxybenzamide;N-(4-(N-(butylcarbamo)l)sulfamo)l)phenethyl]-5-chloro-2-methoxybenzamide	38160-73-5	C ₂₁ H ₂₆ CIN ₃ O ₅ S	467.97	
GRANISETRON					

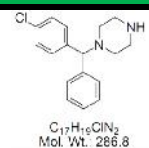
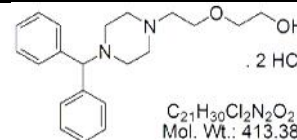
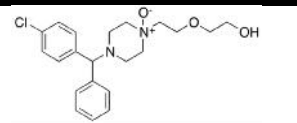
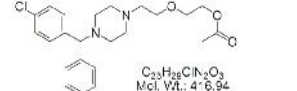
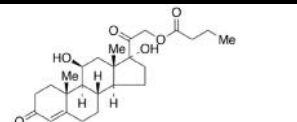
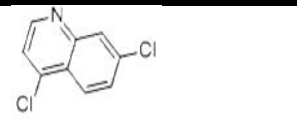
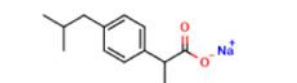
Impurity Catalogue

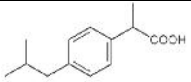
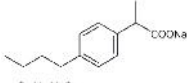
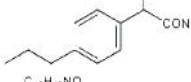
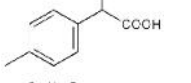
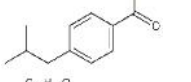
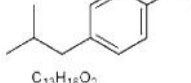
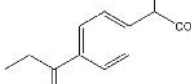
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Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Granisetron EP Impurity A	Granisetron USP RC A ; 1-Desmethyl 2-Methyl Granisetron ; 2-Methyl-N-[(1R,3r,5S)-9-methyl-9-azabicyclo[3.3.1]non-3-yl]-2H-indazole-3-carboxamide ;	127472-42-8	C ₁₈ H ₂₄ N ₄ O	312.41	 C ₁₈ H ₂₄ N ₄ O Mol. Wt.: 312.41
Granisetron EP Impurity B	Granisetron USP RC B ; 1-Desmethyl Granisetron ; N-[(1R,3r,5S)-9-Methyl-9-azabicyclo[3.3.1]non-3-yl]-1H-indazole-3-carboxamide ;	107007-95-4	C ₁₇ H ₂₂ N ₄ O	298.38	 C ₁₇ H ₂₂ N ₄ O Mol. Wt.: 298.38
Granisetron EP Impurity C	N-[(1R,3r,5S)-9-Azabicyclo[3.3.1]non-3-yl]-1-methyl-1H-indazole-3-carboxamide ;	160177-67-3	C ₁₇ H ₂₂ N ₄ O	298.38	 C ₁₇ H ₂₂ N ₄ O Mol. Wt.: 298.38
Granisetron EP Impurity F	exo-Granisetron ; exo-N-(9-Methyl-9-azabicyclo[3.3.1]non-3-yl)-1-methyl-1H-indazole-3-carboxamide ;	1364914-39-5	C ₁₈ H ₂₄ N ₄ O	312.41	 C ₁₈ H ₂₄ N ₄ O Mol. Wt.: 312.41
GUAIFENESIN					
Guaifenesin EP Impurity A	2-Methoxyphenol.	90-05-1	C ₇ H ₈ O ₂	124.14	 C ₇ H ₈ O ₂ Mol. Wt.: 124.14
Guaifenesin EP Impurity B	2-(2-Methoxyphenoxy)propane-1,3-diol ;	14007-09-1	C ₁₀ H ₁₄ O ₄	198.2	 C ₁₀ H ₁₄ O ₄ Mol. Wt.: 198.22

Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Guaifenesin EP Impurity C	1,1'-Oxybis[3-(2-methoxyphenoxy)propan-2-ol] ;	1797132-23-0	C ₂₀ H ₂₆ O ₇	378.42	 C ₂₀ H ₂₆ O ₇ Mol. Wt.: 378.42
Guaifenesin EP Impurity D	1,3-Bis(2-Methoxyphenoxy)propan-2-ol ;	16929-60-5	C ₁₇ H ₂₀ O ₅	304.34	 C ₁₇ H ₂₀ O ₅ Mol. Wt.: 304.34
Guanine	2-Amino-1,9-dihydro-6H-purin-6-one ;	73-40-5	C ₅ H ₅ N ₅ O	151.13	 C ₅ H ₅ N ₅ O Mol. Wt.: 151.13
HALOPERIDOL					
Haloperidol EP Impurity B	4-[4-(4-Chlorophenyl)-4-hydroxypiperidin-1-yl]-1-(2-fluorophenyl)butan-1-one ;	1391052-53-1	C ₂₁ H ₂₃ ClFNO ₂	375.86	 C ₂₁ H ₂₃ ClFNO ₂ Mol. Wt.: 375.86
HYDROCHLOROTHIAZIDE					
Hydrochlorothiazide EP Impurity C	6-Chloro-N-[(6-chloro-7-sulfamoyl-2,3-dihydro-4H-1,2,4-benzothiadiazin-4-yl 1,1-dioxide)methyl]-3,4-dihydro-2H-1,2,4-benzothiadiazine-7-sulfonamide 1,1-dioxide ;	402824-96-8	C ₁₅ H ₁₆ Cl ₂ N ₆ O ₈ S ₄	607.49	 C ₁₅ H ₁₆ Cl ₂ N ₆ O ₈ S ₄ Mol. Wt.: 607.49
Hydrochlorothiazide 5-Chloro Impurity	5,6-Dichloro-3,4-dihydro-2H-1,2,4-benzothiadiazine-7-sulfonamide 1,1-dioxide ;	5233-42-1	C ₇ H ₇ Cl ₂ N ₃ O ₄ S ₂	332.18	 C ₇ H ₇ Cl ₂ N ₃ O ₄ S ₂ Mol. Wt.: 332.18
HYDROXYZINE					

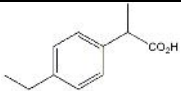
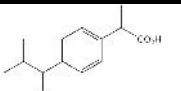
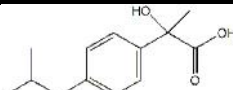
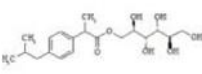
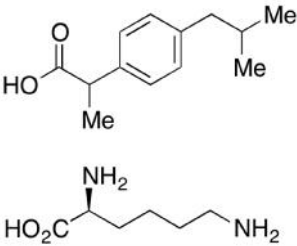
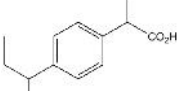
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Hydroxyzine EP Impurity A	(RS)-1-[(4-Chlorophenyl)phenylmethyl]-piperazine ;	303-26-4	C ₁₇ H ₁₉ ClN ₂	286.80	 C ₁₇ H ₁₉ ClN ₂ Mol. Wt.: 286.8
Hydroxyzine EP Impurity B	Hydroxyzine BP Impurity B ; Deschloro Hydroxyzine Dihydrochloride ; Decloxizine Dihydrochloride ; 2-[2-[4-(Diphenylmethyl)piperazin-1-yl]ethoxy]ethanol dihydrochloride ;	13073-96-6	C ₂₁ H ₃₀ Cl ₂ N ₂ O ₂	413.38	 C ₂₁ H ₃₀ Cl ₂ N ₂ O ₂ Mol. Wt.: 413.38
Hydroxyzine N-Oxide	NA	NA	C ₂₁ H ₂₇ ClN ₂ O ₃	390.9	
Hydroxyzine O-Acetyl Impurity	2-(2-{4-[(4-Chlorophenyl)-phenylmethyl]piperazin-1-yl}ethoxy)ethyl acetate ;	NA	C ₂₃ H ₂₉ ClN ₂ O ₃	416.94	 C ₂₃ H ₂₉ ClN ₂ O ₃ Mol. Wt.: 416.94
Hydrocortisone 21-Butyrate	(11?)-11,17-Dihydroxy-21-(1-oxobutoxy)pregn-4-ene-3,20-dione	6677-99-2	C ₂₅ H ₃₆ O ₆	432.55	
4,7-Dichloroquinoline	tl1473;TL 1473;7-Dichloroquinoline;4,7-DICHLOROQUINOLINE;4,7-dichloro-quinolin;4,7-DICHLOROQUINOLINE;Quinoline, 4,7-dichloro-;4,7-Dichloroquinoline,98%;4,7-Dichloroquinoline,97%;4,7-DICHLOROQUINOLINE, 99+%	86-98-6	C ₉ H ₅ Cl ₂ N	198.05	
IBUPROFEN					
Ibuprofen Sodium	Methyl-4-(isobutyl)phenylacetic acid	31121-93-4	C ₁₃ H ₁₇ O ₂ Na	228.26	

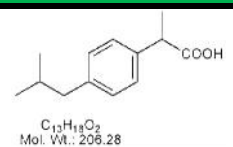
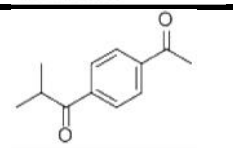
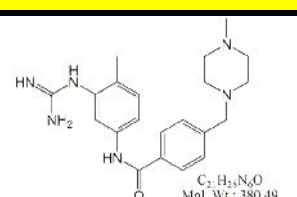
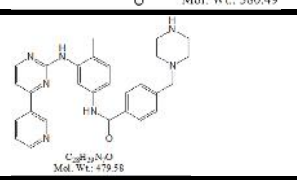
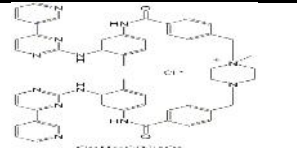
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Ibuprofen	alpha-Methyl-4-(2-methylpropyl)benzeneacetic acid ; 2-(4-Isobutylphenyl)-propionic acid ; p-Isobutylhydratropic acid ;	15687-27-1	C ₁₃ H ₁₈ O ₂	206.28	 C ₁₃ H ₁₈ O ₂ Mol. Wt.: 206.28
Ibuprofen EP Impurity B	(2RS)-2-(4-Butylphenyl)propanoic acid sodium salt ;	3585-49-7	C ₁₃ H ₁₇ NaO ₂	228.26	 C ₁₃ H ₁₇ NaO ₂ Mol. Wt.: 228.26
Ibuprofen EP Impurity C	Ibuprofen Amide ; (2RS)-2-[4-(2-Methylpropyl)phenyl]propanamide ;	59512-17-3	C ₁₃ H ₁₉ NO	205.3	 C ₁₃ H ₁₉ NO Mol. Wt.: 205.3
Ibuprofen EP Impurity D	(2RS)-2-(4-Methylphenyl)propanoic acid ;	938-94-3	C ₁₀ H ₁₂ O ₂	164.2	 C ₁₀ H ₁₂ O ₂ Mol. Wt.: 164.2
Ibuprofen EP Impurity E	1-[4-(2-Methylpropyl)phenyl]ethanone ;	38861-78-8	C ₁₂ H ₁₆ O	176.25	 C ₁₂ H ₁₆ O Mol. Wt.: 176.25
Ibuprofen EP Impurity F	3-[4-(2-Methylpropyl)phenyl]propanoic acid ;	65322-85-2	C ₁₃ H ₁₈ O ₂	206.28	 C ₁₃ H ₁₈ O ₂ Mol. Wt.: 206.28
Ibuprofen EP Impurity J	(2RS)-2-[4-(2-Methylpropanoyl)phenyl]propanoic acid ;	65813-55-0	C ₁₃ H ₁₆ O ₃	220.26	 C ₁₃ H ₁₆ O ₃ Mol. Wt.: 220.26

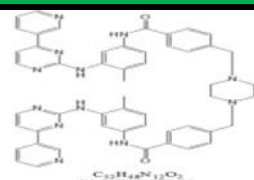
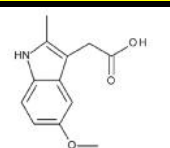
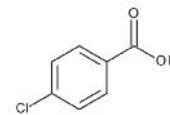
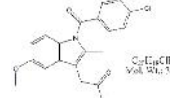
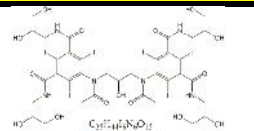
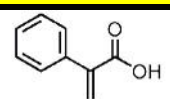
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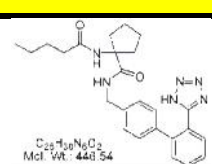
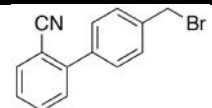
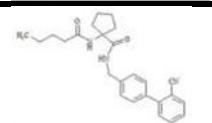
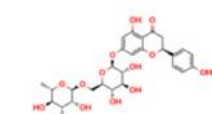
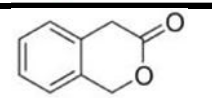
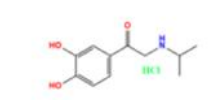
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Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Ibuprofen EP Impurity N	(2RS)-2-(4-Ethylphenyl)propanoic acid ;	3585-52-2	C ₁₁ H ₁₄ O ₂	178.23	 <p>C₁₁H₁₄O₂ Mol. Wt.: 178.23</p>
Ibuprofen EP Impurity L	2-[4-(1-Hydroxy-2-methylpropyl)phenyl]propanoic acid ;	53949-53-4	C ₁₃ H ₁₈ O ₃	222.28	 <p>C₁₃H₁₈O₃ Mol. Wt.: 222.28</p>
Ibuprofen EP Impurity M	Ibuprofen BP Impurity M ; (2RS)-2-Hydroxy-2-[4-(2-Methylpropyl)phenyl]propanoic acid ;	60057-62-7	C ₁₃ H ₁₈ O ₃	222.28	 <p>C₁₃H₁₈O₃ Mol. Wt.: 222.28</p>
Ibuprofen Sorbitol Ester	NA	NA	C ₁₉ H ₃₀ O ₇	370.45	
Ibuprofen Lysinate	L-Lysine Mono[?-(methyl-4-(2-methylpropyl)benzeneacetate)]; ?-(Methyl-4-(2-methylpropyl)benzeneacetic Acid Compd. With L-Lysine (1:1); Arfen; Dolormin; Ibuprofen Lysine; Ibuprofen Lysine Salt; Imbun; Imbun 500; Lisiprofen; Lysine 2-(p-Isobutylphenyl)propionate; Saren; Solufenum; Soluphene.	57469-77-9	C ₁₉ H ₃₂ N ₂ O ₄	352.47	
Ibuprofen EP Impurity O	Ibuprofen BP Impurity O ; 2-[4-(1-Methylpropyl)phenyl]propanoic acid ;	64451-76-9	C ₁₃ H ₁₈ O ₂	206.28	 <p>C₁₃H₁₈O₂ Mol. Wt.: 206.28</p>

Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Ibuprofen For Peck Identification	alpha-Methyl-4-(2-methylpropyl)benzeneacetic acid ; 2-(4-Isobutylphenyl)-propionic acid ; p-Isobutylhydratropic acid ;	15687-27-1	C ₁₃ H ₁₈ O ₂	206.28	 C ₁₃ H ₁₈ O ₂ Mol. Wt.: 206.28
4-Isobutyrylacetonone	1-(4-Acetylphenyl)-2-methyl-1-propanone	103931-20-0	C ₁₂ H ₁₄ O ₂	190.24	
IMATINIB					
Imatinib EP Impurity B	Imatinib Guanidino Impurity ; N-(3-Guanidino-4-methylphenyl)-4-((4-methylpiperazin-1-yl)methyl)benzamide ; N-(3-Carbamidamido-4-methylphenyl)-4-[(4-methylpiperazin-1-yl)methyl]benzamide ;	581076-65-5	C ₂₁ H ₂₈ N ₆ O	380.49	 C ₂₁ H ₂₈ N ₆ O Mol. Wt.: 380.49
Imatinib EP Impurity C	Imatinib N-Desmethyl Impurity ; N-(4-Methyl-3-(4-(pyridin-3-yl)pyrimidin-2-ylamino) phenyl)-4- (piperazin-1-ylmethyl)benzamide ;	404844-02-6	C ₂₈ H ₂₉ N ₇ O	479.58	 C ₂₈ H ₂₉ N ₇ O Mol. Wt.: 479.58
Imatinib EP Impurity D	Imatinib Dimer ; 1-Methyl-1,4-bis[4-[(4-methyl-3-[[4-(pyridin-3-yl)pyrimidin-2-yl]amino] phenyl)carbonyl]benzyl]piperazin-1-ium chloride ;	NA	C ₅₃ H ₅₁ ClN ₁₂ O ₂	923.50	 C ₅₃ H ₅₁ ClN ₁₂ O ₂ 923.50

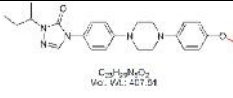
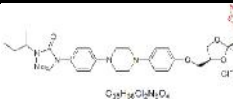
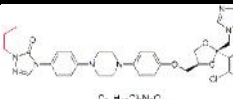
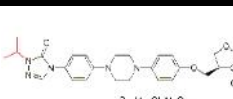
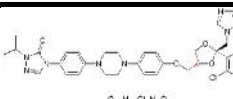
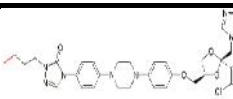
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Imatinib Impurity E	1,4-bis-[4-[4-Methyl-3-[[4-(pyridin-3-yl)pyrimidin-2-yl]amino]phenyl] carbamoyl] benzyl piperazine ;	1365802-18-1	C52H48N12O2	873.02	 C ₅₂ H ₄₈ N ₁₂ O ₂ Mol. Wt.: 873.02
INDOMETHACIN					
Indomethacin RC A	2-(5-methoxy-2-methyl-1H-indol-3-yl)acetic acid.	2882-15-7	C12H13NO3	219.24	
Indomethacin RC B	4-Chlorobenzoic acid	74-11-3	C7H5ClO2	156.57	
Indomethacin Methyl Ester	1-(4-Chlorobenzoyl)-5-methoxy-2-methyl-1H-indole-3-acetic Acid Methyl Ester ;	1601-18-9	C20H18ClNO4	371.81	 C ₂₀ H ₁₈ ClNO ₄ Mol. Wt.: 371.81
IODIXANOL					
Iodixanol	5,5'-[[(2-Hydroxypropane-1,3-diol)bis(acetylimino)]bis[N,N'-bis(2,3-dihydroxypropyl)2,4,6-triodobenzene-1,3-dicarboxamide] ;	92339-11-2	C35H44I6N6O15	1550.18	 C ₃₅ H ₄₄ I ₆ N ₆ O ₁₅ Mol. Wt.: 1550.18
IPRATROPIUM					
Ipratropium EP Impurity D	2-Phenylpropenoic acid ;	492-38-6	C9H8O2	148.16	 C ₉ H ₈ O ₂ Mol. Wt.: 148.16

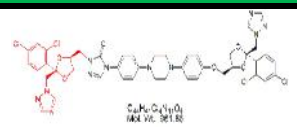
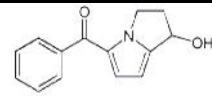
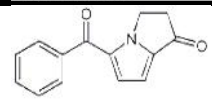
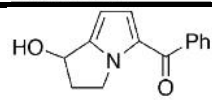
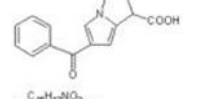
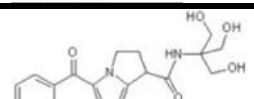
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
IRBESARTAN					
Irbesartan EP Impurity A	Irbesartan USP Related Compound A ; Irbesartan Metabolite "SR-49498" ; 1-Pentanoylamino-cyclopentanecarboxylic acid [2'-(1H-tetrazol-5-yl)-biphenyl-4-ylmethyl]-amide ;	748812-53-5	C25H30N6O2	446.54	 <small>C₂₅H₃₀N₆O₂ Mol. Wt. 446.54</small>
Bromomethyl	(Bromomethyl)-[1,1'-biphenyl]-2-carbonitrile; 2-(4-Bromomethylphenyl)benzonitrile; 4-(2-Cyanophenyl)benzyl Bromide;	114772-54-2	C14H10BrN	272.14	
Irbesartan Carboxamide Impurity	N-((2'-cyanobiphenyl-4-yl)methyl);1-pentanamido cyclopentane carboxamide	NA	C25H29N3O2	403.53	
ISONARINGIN					
Isonaringin	NA	NA	C27H32O14	580.54	
Isochromanone	NA	4385-35-7	C9H8O2	148.16	
Isoproterenol Impurity A	1-(3,4-dihydroxyphenyl)-2-(isopropylamino)ethan-1-one hydrochloride.	16899-81-3	C11H15NO3 HCl	209.25	
ITRACONAZOLE					

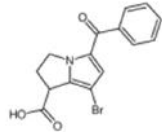
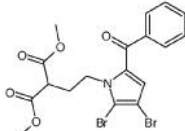
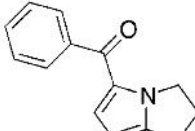
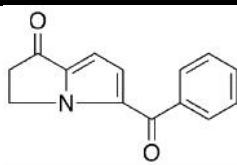
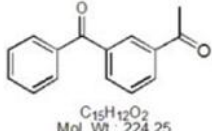
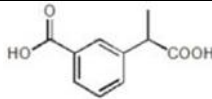
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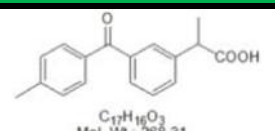
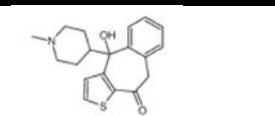
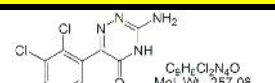
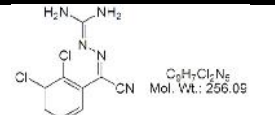
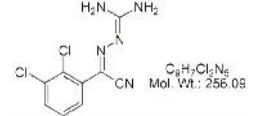
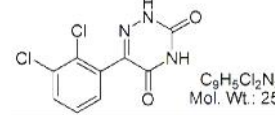
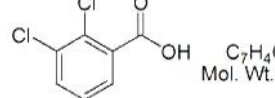
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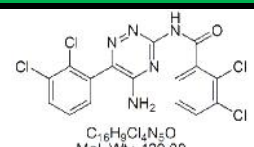
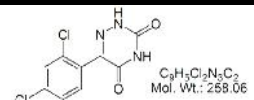
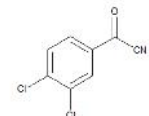
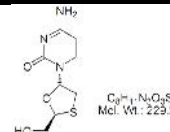
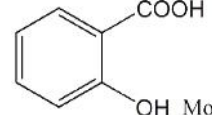
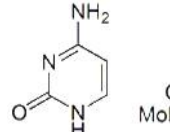


Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Itraconazole EP Impurity A	Itraconazole EP Impurity A ; Itraconazole Methoxy Isobutyltriazolone Impurity ; 4-[4-[4-(4-Methoxyphenyl)piperazin-1-yl]phenyl]-2-[(1RS)-1-methylpropyl]-2,4-dihydro-3H-1,2,4-triazol-3-one ;	252964-68-4	C23H29N5O2	407.51	 C ₂₃ H ₂₉ N ₅ O ₂ Mol. Wt.: 407.51
Itraconazole EP Impurity B	Itraconazole EP Impurity B ; Itraconazole N4-Isomer ; 4-[4-[4-[4-[[cis-2-(2,4-Dichlorophenyl)-2-(4H-1,2,4-triazol-4-ylmethyl)-1,3-dioxolan-4-yl]methoxy]phenyl]piperazin-1-yl]phenyl]-2-[(1RS)-1-methylpropyl]-2,4-dihydro-3H-1,2,4-triazol-3-one ;	854372-77-3	C35H38Cl2N8O4	705.63	 C ₃₅ H ₃₈ Cl ₂ N ₈ O ₄ Mol. Wt.: 705.63
Itraconazole EP Impurity C	Itraconazole EP Impurity C ; Itraconazole Propyl Analog ; 4-[4-[4-[4-[[cis-2-(2,4-Dichlorophenyl)-2-(1H-1,2,4-triazol-1-ylmethyl)-1,3-dioxolan-4-yl]methoxy]phenyl]piperazin-1-yl]phenyl]-2-propyl-2,4-dihydro-3H-1,2,4-triazol-3-one ;	74855-91-7	C34H36Cl2N8O4	691.61	 C ₃₄ H ₃₆ Cl ₂ N ₈ O ₄ Mol. Wt.: 691.61
Itraconazole EP Impurity D	Itraconazole EP Impurity D ; Itraconazole Isopropyl Analog ; 4-[4-[4-[4-[[cis-2-(2,4-Dichlorophenyl)-2-(1H-1,2,4-triazol-1-ylmethyl)-1,3-dioxolan-4-yl]methoxy]phenyl]piperazin-1-yl]phenyl]-2-(1-methylethyl)-2,4-dihydro-3H-1,2,4-triazol-3-one ;	89848-49-7	C34H36Cl2N8O4	691.61	 C ₃₄ H ₃₆ Cl ₂ N ₈ O ₄ Mol. Wt.: 691.61
Itraconazole EP Impurity E	Itraconazole EP Impurity E ; trans-Itraconazole ; 4-[4-[4-[4-[[trans-2-(2,4-Dichlorophenyl)-2-(1H-1,2,4-triazol-1-ylmethyl)-1,3-dioxolan-4-yl]methoxy]phenyl]piperazin-1-yl]phenyl]-2-[(1RS)-1-methylpropyl]-2,4-dihydro-3H-1,2,4-triazol-3-one ;	252964-65-1	C35H38Cl2N8O4	705.63	 C ₃₅ H ₃₈ Cl ₂ N ₈ O ₄ Mol. Wt.: 705.63
Itraconazole EP Impurity F	Itraconazole EP Impurity F ; Itraconazole Butyl Analog ; 2-Butyl-4-[4-[4-[4-[[cis-2-(2,4-dichlorophenyl)-2-(1H-1,2,4-triazol-1-ylmethyl)-1,3-dioxolan-4-yl]methoxy]phenyl]piperazin-1-yl]phenyl]-2,4-dihydro-3H-1,2,4-triazol-3-one ;	89848-51-1	C35H38Cl2N8O4	705.63	 C ₃₅ H ₃₈ Cl ₂ N ₈ O ₄ Mol. Wt.: 705.63

Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Itraconazole EP Impurity G	Itraconazole EP Impurity G ; 4-[4-[4-[4-[[cis-2-(2,4-Dichlorophenyl)-2-(1H-1,2,4-triazol-1-ylmethyl)-1,3-dioxolan-4-yl]methoxy]phenyl]piperazin-1-yl]phenyl]-2-[[cis-2-(2,4-dichloro phenyl)-2-(1H-1,2,4-triazol-1-ylmethyl)-1,3-dioxolan-4-yl]methyl]-2,4-dihydro-3H-1,2,4-triazol-3-one ;	NA	C ₄₄ H ₄₁ Cl ₄ N ₁₁ O ₆	961.68	 C ₄₄ H ₄₁ Cl ₄ N ₁₁ O ₆ Mol. Wt. 961.68
KETOROLAC					
Ketorolac EP Impurity A	Ketorolac USP Related Compound B ; 1-Hydroxy Ketorolac Impurity ; (1RS)-5-Benzoyl-2,3-dihydro-1H-pyrrolizin-1-ol ;	154476-25-2	C ₁₄ H ₁₃ NO ₂	227.26	 C ₁₄ H ₁₃ NO ₂ Mol. Wt.: 227.26
Ketorolac EP Impurity B	Ketorolac USP Related Compound C ; 1-Keto Ketorolac ; 5-Benzoyl-2,3-dihydro-1H-pyrrolizine-1-one ;	113502-52-6	C ₁₄ H ₁₁ NO ₂	225.24	 C ₁₄ H ₁₁ NO ₂ Mol. Wt.: 225.24
Descarboxy 1-Hydroxy Ketorolac	(2,3-Dihydro-1-hydroxy-1H-pyrrolizin-5-yl)phenylmethanone; USP Ketorolac Related Compound B.	154476-25-2	C ₁₄ H ₁₃ NO ₂	227.26	
Ketorolac EP Impurity C	Ketorolac EP Impurity C ; 6-Benzoyl Ketorolac Isomer ; (1RS)-6-Benzoyl-2,3-dihydro-1H-pyrrolizine-1-carboxylic acid ;	1026936-07-1	C ₁₅ H ₁₃ NO ₃	255.27	 C ₁₅ H ₁₃ NO ₃ Mol. Wt. 255.27
Ketorolac EP Impurity E	Ketorolac USP Related Compound A ; Ketorolac Tris Amide Impurity ; (1RS)-5-Benzoyl-N-[2-hydroxy-1,1-bis(hydroxymethyl)ethyl]-2,3-dihydro-1H-pyrrolizine-1-carboxamide ;	167105-80-8	C ₁₉ H ₂₂ N ₂ O ₅	358.39	 C ₁₉ H ₂₂ N ₂ O ₅ Mol. Wt. 358.39

Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Bromo Impurity	5-benzoyl-7-bromo-1,2-dihydro-3H-pyrrolo[1,2-a]pyrrole-1-carboxylic acid.	84023-60-9	C ₁₅ H ₁₂ BrNO ₃	334.16	
Dimethyl[2-(2,3-Dibromo-5-Benzoylpyrrol-1-Yl)Ethyl]Malonate	dimethyl[2-(2,3-dibromo-5-benzoylpyrrol-1-yl)ethyl]malonate.	80965-18-0	C ₁₈ H ₁₇ Br ₂ NO ₅	487.14	
1-Descarboxy Ketorolac	2,3-Dihydro-1H-pyrrolizin-5-yl)phenylmethanone; USP Ketorolac Related Compound D;	113502-55-9	C ₁₄ H ₁₃ NO	211.26	
1-Keto Ketorolac	5-Benzoyl-2,3-dihydro-1H-pyrrolizin-1-one; USP Ketorolac Related Compound C;	113502-52-6	C ₁₄ H ₁₁ NO ₂	225.24	
KETOPROFEN					
Ketoprofen EP Impurity A	1-(3-Benzoylphenyl)ethanone ;	66067-44-5	C ₁₅ H ₁₂ O ₂	224.25	 C ₁₅ H ₁₂ O ₂ Mol. Wt.: 224.25
Ketoprofen EP Impurity C	3-[(1R)-1-Carboxyethyl]benzoic acid ;	NA	C ₁₀ H ₁₀ O ₄	194.18	 C ₁₀ H ₁₀ O ₄ Mol. Wt.: 194.18

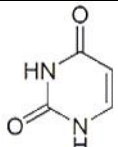
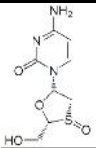
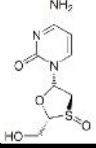
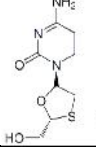
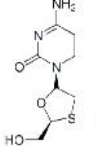
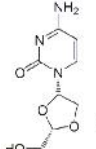
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Ketoprofen EP Impurity D	(2RS)-2-[3-(4-Methylbenzoyl)phenyl]propanoic acid ;	NA	C ₁₇ H ₁₆ O ₃	268.31	 C ₁₇ H ₁₆ O ₃ Mol. Wt. 268.31
Ketotifen Impurity C	4-Hydroxy Ketotifen; 4,9-Dihydro-4-hydroxy-4-(1-methyl-4-piperidiny)-10H-benzo[4,5]cyclohepta[1,2-b]thiophen-10-one;	126939-27-3	C ₁₉ H ₂₁ NO ₂ S	327.45	
LAMOTRIGINE					
Lamotrigine EP Impurity A	Lamotrigine USP RC C ; 3-Amino-6-(2,3-dichlorophenyl)-1,2,4-triazin-5(4H)-one ;	252186-78-0	C ₉ H ₆ Cl ₂ N ₄ O	257.08	 C ₉ H ₆ Cl ₂ N ₄ O Mol. Wt. 257.08
Lamotrigine EP Impurity B	(2E)-[2-(Diaminomethylidene)diazanylidene](2,3-dichlorophenyl)acetonitrile ;	NA	C ₉ H ₇ Cl ₂ N ₅	256.09	 C ₉ H ₇ Cl ₂ N ₅ Mol. Wt.: 256.09
Lamotrigine EP Impurity C	(2Z)-[2-(Diaminomethylidene)diazanylidene](2,3-dichlorophenyl)acetonitrile ;	84689-20-3	C ₉ H ₇ Cl ₂ N ₅	256.09	 C ₉ H ₇ Cl ₂ N ₅ Mol. Wt.: 256.09
Lamotrigine EP Impurity D	6-(2,3-Dichlorophenyl)-1,2,4-triazine-3,5(2H,4H)-dione ;	661463-79-2	C ₉ H ₅ Cl ₂ N ₃ O ₂	258.06	 C ₉ H ₅ Cl ₂ N ₃ O ₂ Mol. Wt.: 258.06
Lamotrigine EP Impurity E	2,3-Dichlorobenzoic acid ;	50-45-3	C ₇ H ₄ Cl ₂ O ₂	191.01	 C ₇ H ₄ Cl ₂ O ₂ Mol. Wt.: 191.01

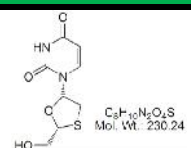
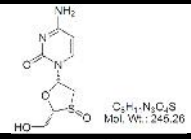
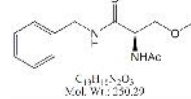
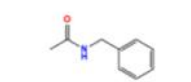
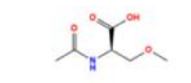
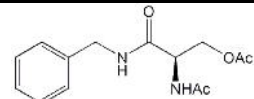
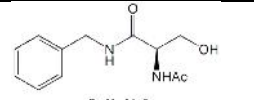
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Lamotrigine EP Impurity F	N-[5-Amino-6-(2,3-dichlorophenyl)-1,2,4-triazin-3-yl]-2,3-dichlorobenzamide ;	252186-79-1	C ₁₆ H ₉ Cl ₄ N ₅ O	429.09	 C ₁₆ H ₉ Cl ₄ N ₅ O Mol. Wt.: 429.09
Lamotrigine EP Impurity G	6-(2,4-dichlorophenyl)-1,2,4-triazine-3,5-diamine ;	38943-76-9	C ₉ H ₅ Cl ₂ N ₃ O ₂	258.06	 C ₉ H ₅ Cl ₂ N ₃ O ₂ Mol. Wt.: 258.06
2-(3,4-Dichlorophenyl)-2-Oxoacetonitrile	2-(3,4-dichlorophenyl)-2-oxoacetonitrile	77668-42-9	C ₈ H ₃ Cl ₂ NO	200.02	
LAMIVUDINE					
Lamivudine EP Impurity B	Lamivudine EP Impurity B ; 4-Amino-1-[(2S,5S)-2-(hydroxymethyl)-1,3-oxathiolan-5-yl]pyrimidin-2(1H)-one ;	136846-20-3	C ₈ H ₁₁ N ₃ O ₃ S	229.26	 C ₈ H ₁₁ N ₃ O ₃ S Mol. Wt.: 229.26
Lamivudine EP Impurity C	Lamivudine EP Impurity C ; Salicylic Acid ; 2-Hydroxybenzenecarboxylic acid ;	69-72-7	C ₇ H ₆ O ₃	138.12	 C ₇ H ₆ O ₃ Mol. Wt.: 138.12
Lamivudine EP Impurity E	Lamivudine EP Impurity E ; Cytosine ; 4-Aminopyrimidin-2(1H)-one ;	71-30-7	C ₄ H ₅ N ₃ O	111.1	 C ₄ H ₅ N ₃ O Mol. Wt.: 111.1

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Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Lamivudine EP Impurity F	Lamivudine EP Impurity F ; Uracil ; Pyrimidine-2,4(1H,3H)-dione ;	66-22-8	C ₄ H ₄ N ₂ O ₂	112.09	 <chem>C4H4N2O2</chem> Mol. Wt.: 112.09
Lamivudine EP Impurity G	Lamivudine EP Impurity G ; Lamivudine (3S)-Sulfoxide ; 4-Amino-1-[(2R,3S,5S)-2-(hydroxymethyl)-1,3-oxathiolan-5-yl] pyrimidin-2(1H)-one S-oxide ;	160552-55-6	C ₈ H ₁₁ N ₃ O ₄ S	245.26	 <chem>C8H11N3O4S</chem> Mol. Wt.: 245.26
Lamivudine EP Impurity H	Lamivudine EP Impurity H ; Lamivudine (3R)-Sulfoxide ; 4-Amino-1-[(2R,3R,5S)-2-(hydroxymethyl)-1,3-oxathiolan-5-yl] pyrimidin-2(1H)-one S-oxide ;	160552-54-5	C ₈ H ₁₁ N ₃ O ₄ S	245.26	 <chem>C8H11N3O4S</chem> Mol. Wt.: 245.26
Lamivudine 5-Epimer	Lamivudine 5-Epimer ; trans-Lamivudine (USP) ; 4-Amino-1-[(2R,5R)-2-(hydroxymethyl)-1,3-oxathiolan-5-yl] pyrimidin-2(1H)-one ; 139757-68-9	139757-68-9	C ₈ H ₁₁ N ₃ O ₃ S	229.26	 <chem>C8H11N3O3S</chem> Mol. Wt.: 229.26
Lamivudine Enantiomer	Lamivudine EP Impurity D ; 4-Amino-1-[(2S,5R)-2-(hydroxymethyl)-1,3-oxathiolan-5-yl]pyrimidin-2(1H)-one ;	134680-32-3	C ₈ H ₁₁ N ₃ O ₃ S	229.26	 <chem>C8H11N3O3S</chem> Mol. Wt.: 229.26
Lamivudine EP Impurity I	Lamivudine EP Impurity I ; Lamivudine Dioxolan Impurity ; 4-Amino-1-[(2S,4S)-2-(hydroxymethyl)-1,3-dioxolan-4-yl] pyrimidin-2(1H)-one ;	NA	C ₈ H ₁₁ N ₃ O ₄	213.19	 <chem>C8H11N3O4</chem> Mol. Wt.: 213.19

Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Lamivudine EP Impurity J	Lamivudine EP Impurity J ; Lamivudine Dione Impurity ; 1-[(2R,5S)-2-(Hydroxymethyl)-1,3-oxathiolan-5-yl]pyrimidine-2,4(1H,3H)-dione ;	145986-07-8	C ₈ H ₁₀ N ₂ O ₄ S	230.24	 C ₈ H ₁₀ N ₂ O ₄ S Mol. Wt.: 230.24
Lamivudine Sulfoxide	Lamivudine Sulfoxide ; 4-Amino-1-[(2R,5S)-2-(hydroxymethyl)-1,3-oxathiolan-5-yl] pyrimidin-2(1H)-one S-oxide ;	1235712-40-9	C ₈ H ₁₁ N ₃ O ₄ S	245.26	 C ₈ H ₁₁ N ₃ O ₄ S Mol. Wt.: 245.26
Lacosamide	(2R)-2-(Acetylamino)-3-methoxy-N-(phenylmethyl)propanamide ;	175481-36-4	C ₁₃ H ₁₈ N ₂ O ₃	250.29	 C ₁₃ H ₁₈ N ₂ O ₃ Mol. Wt.: 250.29
LACOSAMIDE					
Lacosamide Impurity B	N-benzylacetamide.	588-46-5	C ₉ H ₁₁ NO	149.19	
Lacosamide Impurity D	N-acetyl-O-methyl-D-serine; (R)-2-Acetylamino-3-methoxy-propionic acid;	196601-67-9	C ₆ H ₁₁ NO ₄	161.16	
Lacosamide Impurity E	Lacosamide O-Acetyl Impurity ;(2R)-2-(Acetylamino)-3-(acetyloxy)-N-(phenylmethyl)-propanamide ;	1318777-54-6	C ₁₄ H ₁₈ N ₂ O ₄	278.3	 C ₁₄ H ₁₈ N ₂ O ₄ Mol. Wt.: 278.3
Lacosamide Impurity H	Lacosamide N-Ethylcarbonyl Analog ;(2R)-3-Methoxy-2-[(1-oxopropyl)amino]-N-(phenylmethyl)propanamide ;v	1318777-56-8	C ₁₄ H ₂₀ N ₂ O ₃	236.27	 C ₁₄ H ₂₀ N ₂ O ₃ Mol. Wt.: 236.27

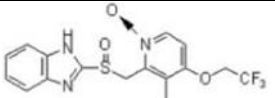
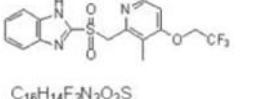
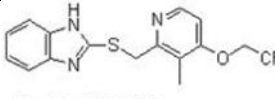
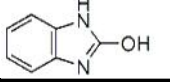
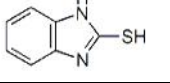
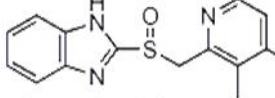
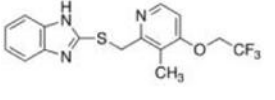


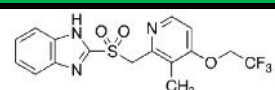
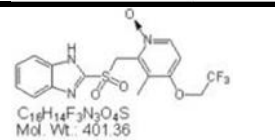
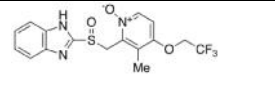
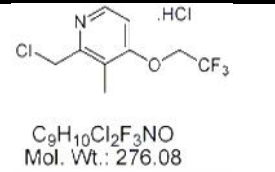
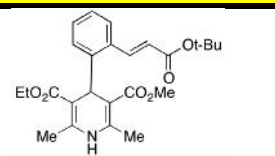
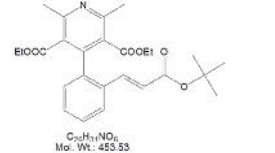
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Lacosamide O-Desmethyl Impurity	(2R)-2-(Acetylamino)-3-hydroxy-N-(phenylmethyl)propanamide ;	175481-38-6	C ₁₂ H ₁₆ N ₂ O ₃	236.27	 C ₁₂ H ₁₆ N ₂ O ₃ Mol. Wt.: 236.27
Lacosamide N-Desacetyl Impurity	(2R)-2-Amino-3-methoxy-N-(phenylmethyl)-propanamide ;	196601-69-1	C ₁₁ H ₁₅ N ₂ O ₂	207.25	 C ₁₁ H ₁₅ N ₂ O ₂ Mol. Wt.: 207.25
Lacosamide (S)-Isomer	(S)-2-(Acetylamino)-3-methoxy-N-(phenylmethyl)propanamide ;	175481-37-5	C ₁₃ H ₁₈ N ₂ O ₃	250.29	 C ₁₃ H ₁₈ N ₂ O ₃ Mol. Wt.: 250.29
LATANOPROST					
Latanoprost Acid	(5Z)-7-[(1R,2R,3R,5S)-3,5-Dihydroxy-2-[(3R)-3-hydroxy-5-phenylpentyl]cyclopentyl]-5-heptenoic Acid; 13,14-Dihydro-17-phenyl-18,19,20-trinor-PGF ₂ ?; PhXA 85; USP Latanoprost Related Compound E;	41639-83-2	C ₂₃ H ₃₄ O ₅	390.51	
15-Keto Latanoprost	(5Z)-7-[(1R,2R,3R,5S)-3,5-Dihydroxy-2-(3-oxo-5-phenylpentyl)cyclopentyl]-5-heptenoic Acid 1-Methylethyl Ester; [1R-[1?(Z),2?,3?,5?]]-7-[3,5-Dihydroxy-2-(3-oxo-5-phenylpentyl)cyclopentyl]-5-heptenoic Acid 1-Methylethyl Ester; 15-Ketolatanoprost;	135646-98-9	C ₂₆ H ₃₈ O ₅	430.58	
Lansoprazole					

Impurity Catalogue

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Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Lansoprazole EP Impurity A	Lansoprazole N-Oxide ; 2-[[[3-Methyl-1-oxido-4-(2,2,2-trifluoroethoxy)-2-pyridinyl]methyl]sulfinyl]-1H-benzimidazole ;	213476-12-1	C ₁₆ H ₁₄ F ₃ N ₃ O ₃ S	385.36	 C ₁₆ H ₁₄ F ₃ N ₃ O ₃ S Mol. Wt.: 385.36
Lansoprazole EP Impurity B	Lansoprazole USP Related Compound A ; Lansoprazole Sulfone ;	131926-99-3	C ₁₆ H ₁₄ F ₃ N ₃ O ₃ S	385.36	 C ₁₆ H ₁₄ F ₃ N ₃ O ₃ S Mol. Wt.: 385.36
Lansoprazole EP Impurity C	Lansoprazole USP Related Compound B ; Lansoprazole Sulfide ; 2-[[[3-Methyl-4-(2,2,2-trifluoroethoxy)-2-pyridinyl]methyl]thio]-1H-benzimidazole ;	103577-40-8	C ₁₆ H ₁₄ F ₃ N ₃ OS	353.36	 C ₁₆ H ₁₄ F ₃ N ₃ OS Mol. Wt.: 353.36
Lansoprazole EP Impurity D	1H-Benzimidazol-2-ol ; 2-Hydroxybenzimidazole ;	615-16-7	C ₇ H ₆ N ₂ O	134.14	 C ₇ H ₆ N ₂ O Mol. Wt.: 134.14
Lansoprazole EP Impurity E	Rabeprazole USP Related Compound C ; Rabeprazole Mercapto Impurity ; 1H-Benzimidazole-2-thiol ; 2-Mercaptobenzimidazole ;	583-39-1	C ₇ H ₆ N ₂ S	150.2	 C ₇ H ₆ N ₂ S Mol. Wt.: 150.20
Lansoprazole EP Impurity F	Rabeprazole USP Related Compound F ; Rabeprazole Chloro Analog (USP) ; 2-[(RS)-[(4-Chloro-3-methylpyridin-2-yl)methyl]sulphonyl]-1H-benzimidazole ; 4-Desmethoxypropoxyl-4-Chloro Rabeprazole ;	168167-42-8	C ₁₄ H ₁₂ ClN ₃ OS	305.78	 C ₁₄ H ₁₂ ClN ₃ OS Mol. Wt.: 305.78
Lansoprazole Sulfide	2-[[[3-Methyl-4-(2,2,2-trifluoroethoxy)-2-pyridinyl]methyl]thio]-1H-benzimidazole ; AG 1777 ; H 225/18 ; K 1252 ; Lansoprazole EP Impurity C/USP Impurity B	103577-40-8	C ₁₆ H ₁₄ F ₃ N ₃ O	353.36	

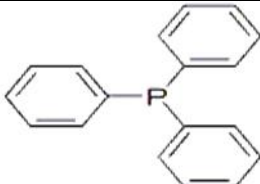
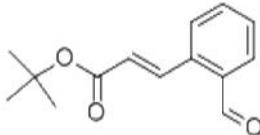
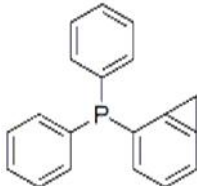
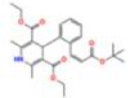
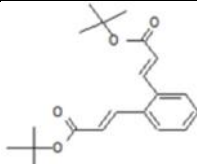
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Lansoprazole Sulfone	2-[[[3-Methyl-4-(2,2,2-trifluoroethoxy)-2-pyridinyl]methyl]sulfonyl]-1H-benzimidazole; AG 1813;	131926-99-3	C ₁₆ H ₁₄ F ₃ N ₃ O ₃ S	385.36	
Lansoprazole Sulfone N-Oxide	2-[[[3-Methyl-1-oxido-4-(2,2,2-trifluoroethoxy)-2-pyridinyl]methyl]sulfonyl]-1H-benzimidazole ;	953787-54-7	C ₁₆ H ₁₄ F ₃ N ₃ O ₄ S	401.36	 C ₁₆ H ₁₄ F ₃ N ₃ O ₄ S Mol. Wt. 401.36
Lansoprazole N-Oxide	2-[[[3-Methyl-1-oxido-4-(2,2,2-trifluoroethoxy)-2-pyridinyl]methyl]sulfinyl]-1H-benzimidazole; Lansoprazole EP Impurity A	213476-12-1	C ₁₆ H ₁₄ F ₃ N ₃ O ₃ S	385.36	
Lansoprazole Chloromethyl Impurity	2-Chloromethyl-3-methyl-4-(2,2,2-trifluoroethoxy)pyridine hydrochloride ;	127337-60-4	C ₉ H ₁₀ Cl ₂ F ₃ NO	276.08	 C ₉ H ₁₀ Cl ₂ F ₃ NO Mol. Wt.: 276.08
LACIDIPINE					
Lacidipine Impurity A	Lacidipine Monomethyl Ester;4-[2-[3-(1,1-Dimethylethoxy)-3-oxo-1-propenyl]phenyl]-1,4-dihydro-2,6-dimethyl-3,5-pyridinedicarboxylic Acid Ethyl Methyl Ester	103890-81-9	C ₂₅ H ₃₁ N ₂ O ₆	441.52	
Lacidipine BP Impurity B	Diethyl (E)-4-{2-[2-(tert-butoxycarbonyl)vinyl]phenyl}-2,6-dimethylpyridine-3,5-dicarboxylate ;	130996-24-6	C ₂₆ H ₃₁ N ₂ O ₆	453.53	 C ₂₆ H ₃₁ N ₂ O ₆ Mo. Wt.: 453.53

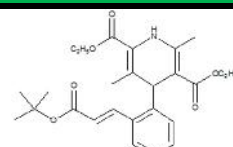
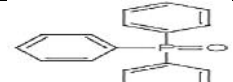
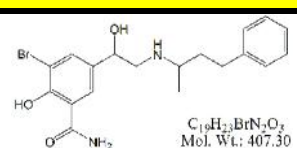
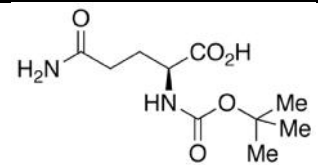
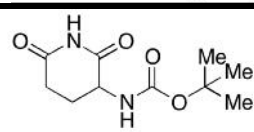
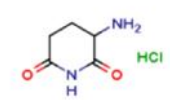
Impurity Catalogue

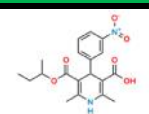
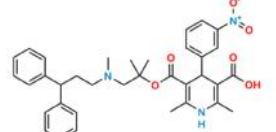
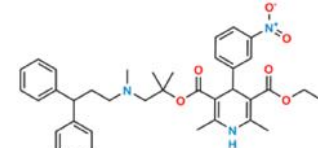
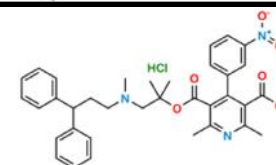
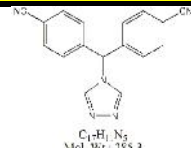
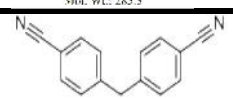
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Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Lacidipine BP Impurity C	Diethyl (Z)-4-{2-[2-(tert-butoxycarbonyl)vinyl]phenyl}-1,4-dihydro-2,6-dimethylpyridine-3,5-dicarboxylate ;	103890-79-5	C ₂₆ H ₃₃ NO ₆	455.54	
2-Carboxybenzaldehyde	OFBA;Phthalaldehyd;Phthaladehyde;AKOS BBS-00003264;Pthaladehyde acid;3-HYDROXYPTHALIDE;PTHALDEHYDIC ACID;RARECHEM AL BO 1280;2-formyl-benzoicaci;2-PTHALDEHYDIC ACID	119-67-5	C ₈ H ₆ O ₃	150.13	
(Tert-Butoxycarbonylmethyl)Triphenylphosphonium Bromide	NSC 82468;T-butoxycarbonylmethyltriphenylphosphoniumbromide;tert-Butoxycarbonylmethyltriphenylphosphoniumbrom;carbo-tert-butoxymethyl triphenylphosphonium bromide;(tert-Butoxycarbonylmethyl)triphenylphosphonium bromide;(TERT-BUTOXYCARBONYLMETHYL)TRIPHENYLPHOSPHONIUM BROMIDE;(tert-Butoxycarbonylmethyl)triphenylphosphonium bromide;(2-(tert-Butoxy)-2-	59159-39-6	C ₂₄ H ₂₆ BrO ₂ P	457.34	
Triphenylphosphine Oxide	NSC 398; PP 560; TPPO; Triphenyl Phosphorus Oxide; Triphenylphosphine Monoxide; Orlistat Related Compound C	791-28-6	C ₁₈ H ₁₅ OP	278.28	
2-Ethenylbenzaldehyde	2-Ethenylbenzaldehyde; Benzaldehyde, 2-ethenyl-; ETHENYLBENZALDEHYDE	28272-96-0	C ₉ H ₈ O	132.16	


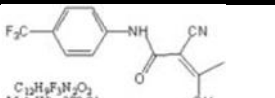
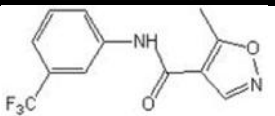
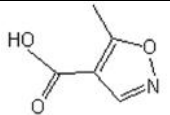
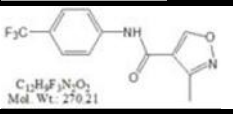
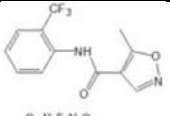
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Triphenylphosphine	PHOSPHORUSTRIPHENYL TPP TRIPHENYLPHOSPHINE,	603-35-0	C ₁₈ H ₁₅ P	262.29	
(E)-3-(2-Formylphenyl)-2-Propenoic Acid 1,1-Dimethyl Ethyl Ester	(E)-3-(2-FORMYLPHENYL)-2-PROPENOIC ACID 1,1-DIMETHYL ETHYL ESTER;(e)-3-(2-formylphenyl)-2-propenoic acid 1,1-dimethyl ethyl ester;(E)-3-(2-Formylphenyl)-2-Propene;(E)-3-(2-FORMYLPHENYL)-2-PROPENOIC ACID 1,1-DIMETHYL ETHYL ESTER,80+%;(E)-tert-Butyl 3-(2-formylphenyl)acrylate	103890-69-3	C ₁₄ H ₁₆ O ₃	232.28	
Methylenetriphenylphosphine	Methylenetriphenylphosphine;methylene-tri(phenyl)phosphorane;methylidene-tri(phenyl)-phosphane	3487-44-3	NA	NA	
Cis Lacidipine	diethyl (Z)-4-(2-(3-(tert-butoxy)-3-oxoprop-1-en-1-yl)phenyl)-2,6-dimethyl-1,4-dihydropyridine-3,5-dicarboxylate.Lacidipine BP Impurity C ; Lacidipine cis-Isomer ;	103890-79-5	C ₂₆ H ₃₃ NO ₆	455.54	
Lacidipine Dimer	3-[2-(2-tert-Butoxycarbonyl-vinyl)-phenyl]-acrylic acid tert-butyl ester	926293-66-5	C ₂₀ H ₂₆ O ₄	330.42	

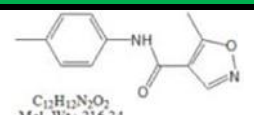
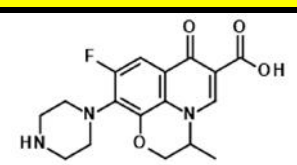
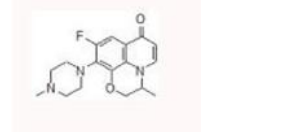
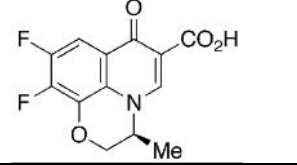
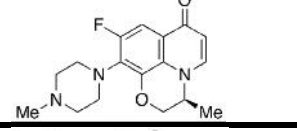
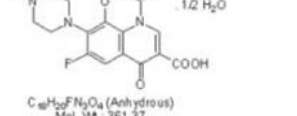
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Lacidipine Regio Impurity	Lacidipine Regio Impurity	1160755-72-5	C ₂₃ H ₃₃ N ₂ O ₆	455.54	
Lacidipine TPPO Impurity	Ph ₃ PO, TPPO, Triphenyl phosphorus oxide, Triphenylphosphine monoxide	791-28-6	(C ₆ H ₅) ₃ PO	278.28	
LABETALOL					
Labetalol EP Impurity G	3-bromo-2-hydroxy-5-[1-hydroxy-2-[(1-methyl-3-phenylpropyl)amino]-ethyl]benzamide ;	NA	C ₁₉ H ₂₃ BrN ₂ O ₃	407.30	 C ₁₉ H ₂₃ BrN ₂ O ₃ Mol. Wt.: 407.30
LENALIDOMIDE					
Lenalidomide Tert-Butoxycarbonyl-L-Glutamine	N ₂ -[(1,1-Dimethylethoxy)carbonyl]-L-glutamine; N ₂ -Carboxy-glutamine N-tert-Butyl Ester; (S)-2-[(tert-Butoxycarbonyl)amino]-4-carbamoylbutanoic Acid; BOC-glutamine; NSC 334370;	13726-85-7	C ₁₀ H ₁₈ N ₂ O ₅	246.26	
Lenalidomide Tert-Butyl (2,6-Dioxopiperidin-3-yl)Carbamate	tert-Butyl Ester 2,6-Dioxo-3-piperidinecarbamic Acid; 1,1-Dimethylethyl Ester (2,6-Dioxo-3-piperidinyl)-carbamic Acid;	31140-42-8	C ₁₀ H ₁₆ N ₂ O ₄	228.25	
Lenalidomide 3-Aminopiperidine-2,6-Dione Hydrochloride	3-aminopiperidine-2,6-dione hydrochloride;	2686-86-4	C ₅ H ₉ ClN ₂ O ₂	164.59	
LERCANIDIPINE					

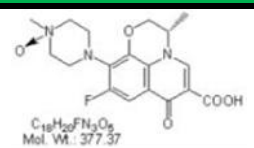
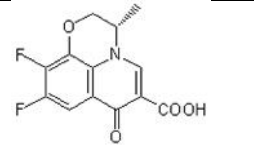
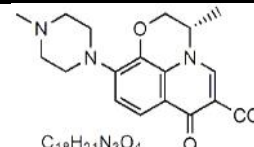
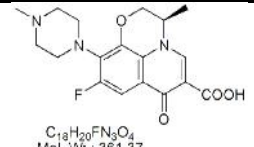
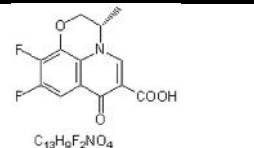
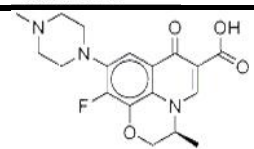
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Lercanidipine Impurity A	1,4-Dihydro-2,6-dimethyl-4-(3-nitrophenyl)-3,5-pyridinedicarboxylic acid 1-methylpropyl ester	74936-74-6	C19H22N2O6	374.39	
Lercanidipine Impurity B	Lercanidipine Acid ; 1,4-Dihydro-2,6-dimethyl-4-(3-nitrophenyl)-3,5-pyridinedicarboxylic acid 2-[(3,3-diphenylpropyl)methylamino]-1,1-dimethylethyl ester	1119226-97-9	C35H39N3O6	597.7	
Lercanidipine Impurity C	Lercanidipine 5-Desmethyl-5-Propyl Ester ; 1,4-Dihydro-2,6-dimethyl-4-(3-nitrophenyl) pyridine-3,5-dicarboxylic acid 2-[N-(3,3-diphenylpropyl)-N-methylamino]-1,1-dimethyl ethyl propyl diester	1797124-83-4	C38H45N3O6	639.78	
Lercanidipine Impurity D	Dehydro Lercanidipine HCl, 2,6-Dimethyl-4-(3-nitrophenyl)-pyridine-3,5-dicarboxylic acid 3-{2-[(3,3-diphenyl propyl)methylamino]-1,1-dimethyl ethyl}ester 5-methyl ester HCl	887769-34-8	C36H40ClN3O6	646.17	
LETROZOLE					
Letrozole EP Impurity A	4,4'-(4H-1,2,4-Triazol-4-ylmethylene)dibenzonitrile ;	112809-52-6	C17H11N5	285.3	 <small>C₁₇H₁₁N₅ Mol. Wt.: 285.3</small>
Letrozole Impurity D	4,4'-(1-METHYLENE) BIS-BENZONITRILE;4,4'-(1-Methylene);4,4'-Dicyanodiphenylmethane;4,4'-(1-METHYLENE) BIS-BENZONITRILE;4-[(4-Cyanophenyl)methyl]benzonitrile;	10466-37-2	C15H8N2	218.25	
LEVETIRACETAM					

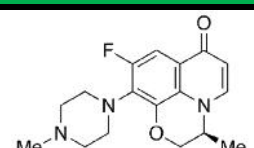
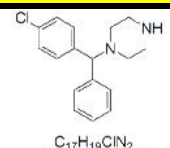
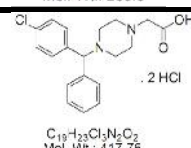
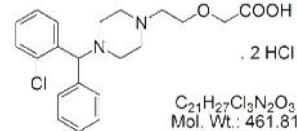
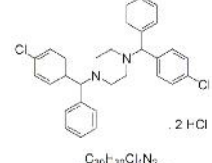
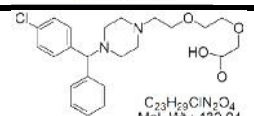


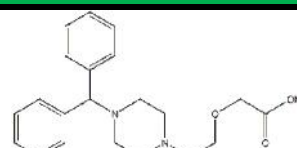
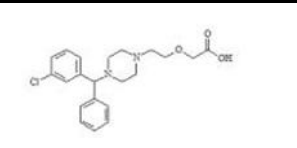
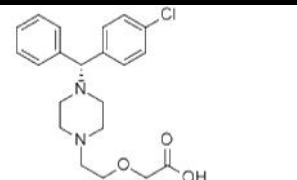
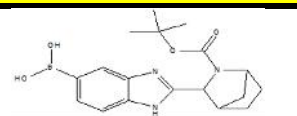
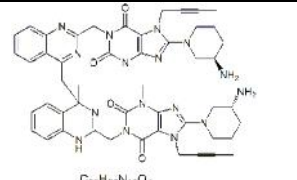
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Levetiracetam USP RCA	(S)-N-(1-Amino-1-oxobutan-2-yl)-4-chlorobutanamide ;	102767-31-7	C ₈ H ₁₅ ClN ₂ O ₂	206.67	 C ₈ H ₁₅ ClN ₂ O ₂ Mol. Wt: 206.67
Levetiracetam EP Impurity A	(2RS)-2-(2-Oxopyrrolidin-1-yl)butanoic acid ;	67118-31-4	C ₈ H ₁₃ NO ₃	171.19	 C ₈ H ₁₃ NO ₃ Mol. Wt: 171.19
Levetiracetam EP Impurity B	(2Z)-2-(2-Oxopyrrolidin-1-yl)but-2-enamide ;	358629-47-7	C ₈ H ₁₂ N ₂ O ₂	168.19	 C ₈ H ₁₂ N ₂ O ₂ Mol. Wt: 168.19
Levetiracetam EP Impurity C	Pyridin-2-ol ; 2-Pyridinol ; 2-Hydroxypyridine ;	142-08-5	C ₅ H ₅ NO	95.1	 C ₅ H ₅ NO Mol. Wt: 95.1
Levetiracetam EP Impurity D	(R)-Etiracetam ; Levetiracetam R-Isomer ; (2R)-2-(2-Oxopyrrolidin-1-yl)butanamide ;	103765-01-1	C ₈ H ₁₄ N ₂ O ₂	170.21	 C ₈ H ₁₄ N ₂ O ₂ Mol. Wt: 170.21
LEVODOPA					
Levodopa EP Impurity A	Levodopa USP Related Compound A ; (2S)-2-Amino-3-(2,4,5-trihydroxyphenyl)propanoic acid; 3-(3,4,6-Trihydroxyphenyl)-alanine ; 2-Hydroxy Levodopa ;	27244-64-0	C ₉ H ₁₁ NO ₅	213.0637	 C ₉ H ₁₁ NO ₅ Exact Mass: 213.0637
Levodopa EP Impurity D	Levodopa EP Impurity D ; D-Dopa ; (2R)-2-Amino-3-(3,4-dihydroxyphenyl)propanoic acid ;	5796-17-8	C ₉ H ₁₁ NO ₄	197.19	 C ₉ H ₁₁ NO ₄ Mol. Wt: 197.19

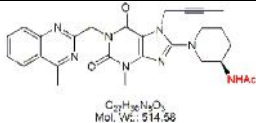
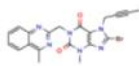
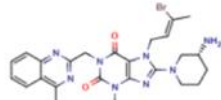
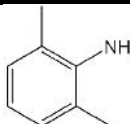
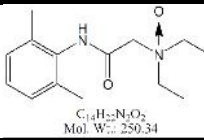
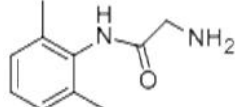
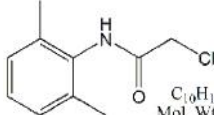
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
LEFLUNOMIDE					
Leflunomide EP Impurity A	4-(Trifluoromethyl)aniline ;	455-14-1	C ₇ H ₆ F ₃ N	161.12	 <p>C₇H₆F₃N Mol. Wt.: 161.12</p>
Leflunomide EP Impurity B	N-(4-Trifluoromethylphenyl)-2-cyano-3-hydroxycrotonamide ;	163451-81-8 ; 108605-62-5 ;	C ₁₂ H ₉ F ₃ N ₂ O ₂	270.21	 <p>C₁₂H₉F₃N₂O₂ Mol. Wt.: 270.21</p>
Leflunomide EP Impurity C	5-Methyl-N-[3-(trifluoromethyl)phenyl]-4-isoxazolecarboxamide ;	61643-23-0	C ₁₂ H ₉ F ₃ N ₂ O ₂	270.21	 <p>C₁₂H₉F₃N₂O₂ Mol. Wt.: 270.21</p>
Leflunomide EP Impurity D	5-Methyl-4-isoxazolecarboxylic Acid ;	42831-50-5	C ₅ H ₅ NO ₃	127.10	 <p>C₅H₅NO₃ Mol. Wt.: 127.10</p>
Leflunomide EP Impurity E	3-Methyl-N-[4-(trifluoromethyl)phenyl]isoxazole-4-carboxamide ;	208401-20-1	C ₁₂ H ₉ F ₃ N ₂ O ₂	270.21	 <p>C₁₂H₉F₃N₂O₂ Mol. Wt.: 270.21</p>
Leflunomide EP Impurity F	5-Methyl-N-[2-(trifluoromethyl)phenyl]-4-isoxazolecarboxamide ;	1403564-06-6	C ₁₂ H ₉ F ₃ N ₂ O ₂	270.21	 <p>C₁₂H₉F₃N₂O₂ Mol. Wt.: 270.21</p>

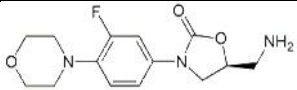
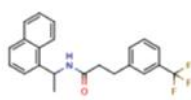
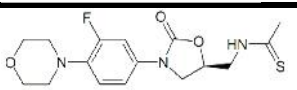
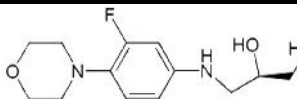
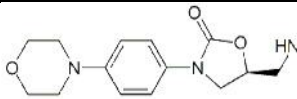
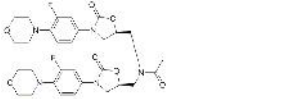
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Leflunomide EP Impurity G	5-Methyl-N-(4-methylphenyl)isoxazole-4-carboxamide ;	724429-16-7	C ₁₂ H ₁₂ N ₂ O ₂	216.24	 C ₁₂ H ₁₂ N ₂ O ₂ Mol. Wt. 216.24
LEVOFLOXACIN					
Levofloxacin EP Impurity A	9-Fluoro-3-methyl-7-oxo-10-(piperazin-1yl)-2,3-dihydro-7H-pyrido[1,2,3-de]-1,4-benzo oxazin-6- carboxylic acid.	82419-52-1	NA	347.34	
Levofloxacin EP Impurity B	9-Fluoro-2,3-dihydro-3-methyl-10-(4-methyl-1-piperazinyl)-7-oxo-7H-pyrido[1,2,3-de]-1,4-benzoxazine(Decarboxylated).	NA	NA	NA	
Levofloxacin Carboxylic Acid	(3S)-9,10-Difluoro-2,3-dihydro-3-methyl-7-oxo-7H-pyrido[1,2,3-de]-1,4-benzoxazine-6-carboxylic Acid; Levofloxacin Q-Acid; USP Levofloxacin Related Compound B;	100986-89-8	C ₁₃ H ₉ F ₂ NO ₄	281.21	
Descarboxyl Levofloxacin	(3S)-9-Fluoro-2,3-dihydro-3-methyl-10-(4-methyl-1-piperazinyl)-7H-pyrido[1,2,3-de]-1,4-benzoxazin-7-one;	178964-53-9	C ₁₇ H ₂₀ FN ₃ O ₂	317.36	
Levofloxacin Hemihydrate	(-)-(S)-9-Fluoro-2,3-dihydro-3-methyl-10-(4-methyl-1-piperazinyl)-7-oxo-7H-pyrido[1,2,3-de]-1,4-benzoxazine-6-carboxylic acid hemihydrate ;	100986-85-4	C ₁₈ H ₂₀ FN ₃ O ₄	361.37	 C ₁₈ H ₂₀ FN ₃ O ₄ (Anhydrous) Mol. Wt. 361.37

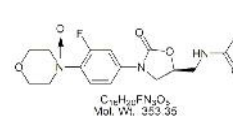
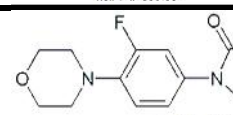
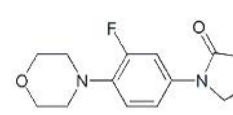
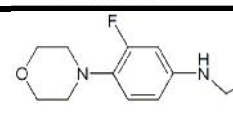
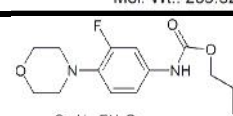
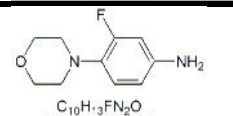
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Levofloxacin N-Oxide	(-)-(S)-9-Fluoro-2,3-dihydro-3-methyl-10-(4-methyl-1-piperazinyl)-7-oxo-7H-pyrido[1,2,3-de]-1,4-benzoxazine-6-carboxylic acid N-oxide ;	117678-37-2	C ₁₈ H ₂₀ FN ₃ O ₅	377.37	 C ₁₈ H ₂₀ FN ₃ O ₅ Mol. Wt.: 377.37
Levofloxacin Impurity F	Levofloxacin USP RC B ; Levofloxacin Difluoro Carboxylic Acid ; (S)-9,10-Difluoro-3-methyl-7-oxo-2,3-dihydro-7H-pyrido[1,2,3-de][1,4]benzoxazine-6-carboxylic acid ;	100986-89-8	C ₁₃ H ₉ F ₂ NO ₄	281.21	 C ₁₃ H ₉ F ₂ NO ₄ Mol. Wt.: 281.21
Levofloxacin Desfluoro Impurity	Levofloxacin USP RC F ;(-)-(S)-2,3-Dihydro-3-methyl-10-(4-methyl-1-piperazinyl)-7-oxo-7H-pyrido[1,2,3-de]-1,4-benzoxazine-6-carboxylic acid ;	117620-85-6	C ₁₈ H ₂₁ N ₃ O ₄	343.38	 C ₁₈ H ₂₁ N ₃ O ₄ Mol. Wt.: 343.38
Levofloxacin R-Isomer	(+)-(R)-9-Fluoro-2,3-dihydro-3-methyl-10-(4-methyl-1-piperazinyl)-7-oxo-7H-pyrido[1,2,3-de]-1,4-benzoxazine-6-carboxylic acid ; (R)-(+)-Ofloxacin ; D-Ofloxacin ; Ofloxacin R-Isomer ; Levofloxacin D-Isomer ;	100986-86-5	C ₁₈ H ₂₀ FN ₃ O ₄	361.37	 C ₁₈ H ₂₀ FN ₃ O ₄ Mol. Wt.: 361.37
Levofloxacin Q-Acid	Levofloxacin USP RC B ; Levofloxacin Difluoro Carboxylic Acid ; (S)-9,10-Difluoro-3-methyl-7-oxo-2,3-dihydro-7H-pyrido[1,2,3-de][1,4]benzoxazine-6-carboxylic acid	100986-89-8	C ₁₃ H ₉ F ₂ NO ₄	281.21	 C ₁₃ H ₉ F ₂ NO ₄ Mol. Wt.: 281.21
Levofloxacin 9-Piperazino	9-Piperazino Levofloxacin; Levofloxacin 9-Piperazinyl Isomer; 9-Piperazine Levofloxacin Impurity; 9-Piperazino Levofloxacin Impurity; (S)-10-fluoro-3-methyl-9-(4-methylpiperazin-1-yl)-7-oxo-2,3-dihydro-7H-[1,4]oxazino[2,3,4-ij]quinoline-6-carboxylic acid;	178912-62-4	C ₁₈ H ₂₀ FN ₃ O ₄	361.38	

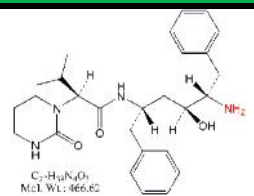
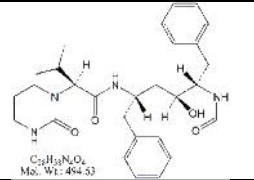
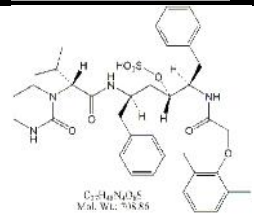
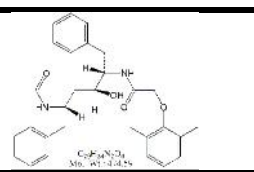
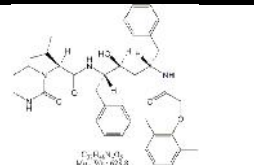
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Levofloxacin Ethyl Ester	Levofloxacin USP Related Compound C ; Levofloxacin Ethyl Ester ; Ethyl (S)-9-fluoro-2,3-dihydro-3-methyl-10-(4-methyl-1-piperazinyl)-7-oxo-7H-pyrido[1,2,3-de]-1,4-benzoxazine-6-carboxylate ;	177472-30-9	C17H20FN3O2	317.36	
LEVOCETIRIZINE					
Levocetirizine EP Impurity A	(RS)-1-[(4-Chlorophenyl)phenylmethyl]piperazine ;	303-26-4	C17H19ClN2	286.8	 C ₁₇ H ₁₉ ClN ₂ Mol. Wt.: 286.8
Levocetirizine EP Impurity B	(RS)-2-[4-[(4-Chlorophenyl)phenylmethyl]piperazin-1-yl]acetic acid dihydrochloride ;	942132-30-1	C19H23Cl3N2O2	417.76	 C ₁₉ H ₂₃ Cl ₃ N ₂ O ₂ Mol. Wt.: 417.76
Levocetirizine EP Impurity C	(RS)-2-[2-[4-[(2-Chlorophenyl)phenylmethyl]piperazin-1-yl]ethoxy] acetic acid dihydrochloride ;	83881-59-8 (base)	C21H27Cl3N2O3	461.81	 C ₂₁ H ₂₇ Cl ₃ N ₂ O ₃ Mol. Wt.: 461.81
Levocetirizine EP Impurity D	1,4-bis[(4-Chlorophenyl)phenylmethyl]piperazine dihydrochloride ;	346451-15-8 (base) ;	C30H30Cl4N2	560.38	 C ₃₀ H ₃₀ Cl ₄ N ₂ Mol. Wt.: 560.38
Levocetirizine EP Impurity E	(RS)-2-[2-[2-[4-[(4-Chlorophenyl)phenylmethyl]piperazin-1-yl]ethoxy] ethoxy] acetic acid ;	682323-77-9	C23H29ClN2O4	432.94	 C ₂₃ H ₂₉ ClN ₂ O ₄ Mol. Wt.: 432.94


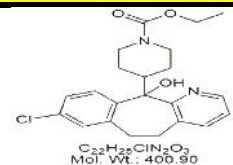
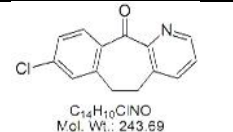

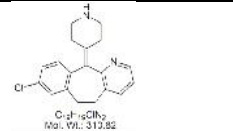
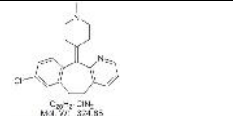
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Levocetirizine EP Impurity F	Acetic acid, 2-[2-[4-(diphenylMethyl)-1-piperazinyl]ethoxy]-;Deschloro Cetirizine	83881-53-2	C ₂₁ H ₂₆ N ₂ O ₃	354.44	
Levocetirizine 3-Chloro Impurity	NA	1232460-31-9	C ₂₁ H ₂₅ ClN ₂ O ₃	388.90	
Levocetirizine R-Isomer	(R)-Cetirizine; Levocetirizine-d ₄ ; (R)-Cetirizine-d ₄ ; Cetirizine R-Isomer; 2-(2-(4-(4-Chlorophenyl)); LevocetirizineHydrochloride	130018-77-8	C ₂₁ H ₂₅ ClN ₂ O ₃	388.89	
LEDIPASVIR					
Ledipasvir Boronic Acid	2-(2-(tert-butoxycarbonyl)-2-aza-bicyclo[2.2.1]heptan-3-yl)-1H-benzo[d]imidazol-5-yl-5-boronic acid.	NA	C ₁₈ H ₂₄ BN ₃ O ₄	357.21	
LINAGLIPTIN					
Linagliptin Dimer Impurity	8-[(3R)-3-Amino-1-piperidiny]-1-[[4-[[2-[[8-[(3R)-3-amino-1-piperidiny]-7-(2-butyn-1-yl)-2,3,6,7-tetrahydro-3-methyl-2,6-dioxo-1H-purin-1-yl]methyl]-1,4-dihydro-4-ethyl-4-quinazoliny]methyl]-2-quinazoliny]methyl]-7-(2-butyn-1-yl)-3,7-dihydro-3-methyl-1H-purine-2,6-dione ;	1418133-47-7	C ₅₀ H ₅₆ N ₁₆ O ₄	945.08	 C ₅₀ H ₅₆ N ₁₆ O ₄ Mol. Wt.: 945.08

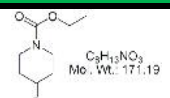
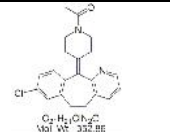
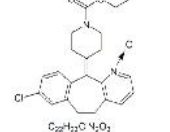
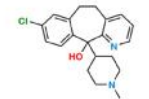
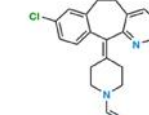
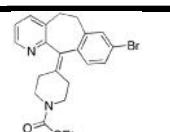
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Linagliptin N-Acetyl Impurity	8-[(3R)-3-Acetylamino-1-piperidinyl]-7-(2-butyn-1-yl)-3,7-dihydro-3-methyl-1-[(4-methyl-2-quinazoliny)methyl]-1H-purine-2,6-dione ;	1803079-49-3	C ₂₇ H ₃₀ N ₈ O ₃	514.58	 C ₂₇ H ₃₀ N ₈ O ₃ Mol. Wt.: 514.58
Linagliptin Impurity 1	1-[(4-Methylquinazolin-2-yl)methyl]-3-methyl-7-(2-butyn-1-yl)-8-bromoxanthin	853029-57-9	C ₂₀ H ₁₇ BrN ₆ O ₂	453.29	
Linagliptin Impurity 2	8-[(3R)-3-Amino-1-piperidinyl]-7-[(2E/Z)-3-bromo-2-buten-1-yl]-3,7-dihydro-3-methyl-1-[(4-methyl-2-quinazoliny)methyl]-1H-purine-2,6-dione; Linagliptin Impurity S	1638744-06-5	C ₂₅ H ₂₉ BrN ₈ O ₂	553.45	
LIDOCAINE					
Lidocaine BP Impurity A	Bupivacaine EP Impurity F ; Lidocaine USP Impurity A ; 2,6-Dimethylaniline ;	87-62-7	C ₈ H ₁₁ N	121.18	 C ₈ H ₁₁ N Mol. Wt.: 121.18
Lidocaine BP Impurity B	Lidocaine N-Oxide ; 2-(Diethylazinoyl)-N-(2,6-dimethylphenyl)acetamide ;	2903-45-9	C ₁₄ H ₂₂ N ₂ O ₂	250.34	 C ₁₄ H ₂₂ N ₂ O ₂ Mol. Wt.: 250.34
Glycene Xylidide	glycinexylidide;2-Amino-2',6'-dimethylacetoanilide;GX;N-(2,6-Dimethylphenyl)-2-aminoacetamide;N-(2,6-Dimethylphenyl)glycinamide.	18865-38-8	C ₁₀ H ₁₄ N ₂ O	178.23	
Lidocaine BP Impurity H	2-Chloro-N-(2,6-dimethylphenyl)acetamide ;	1131-01-7	C ₁₀ H ₁₂ ClNO	197.66	 C ₁₀ H ₁₂ ClNO Mol. Wt.: 197.66

Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
LINEZOLID					
Linezolid Impurity A	Linezolid USP Related Compound C ; Linezolid Desacetyl Analog ; (5S)-5-(Aminomethyl)-3-[3-fluoro-4-(4-morpholinyl)phenyl]-2-oxazolidinone ;	168828-90-8	C ₁₄ H ₁₈ FN ₃ O ₃	295.31	 C ₁₄ H ₁₈ FN ₃ O ₃ Mol. Wt.: 295.31
Linezolid USP RC A	Linezolid USP Related Compound A ; Linezolid Desacetamide Azide ; (5R)-5-(Azidomethyl)-3-[3-fluoro-4-(4-morpholinyl)phenyl]-2-oxazolidinone ;	168828-84-0	C ₁₄ H ₁₆ FN ₅ O ₃	321.31	
Linezolid USP RC B	ThioLinezolid ; (S)-N-[[3-(3-Fluoro-4-morpholinophenyl)-2-oxooxazolidin-5-yl]methyl] thioacetamide ;	NA	C ₁₆ H ₂₀ FN ₃ O ₃ S	353.41	 C ₁₆ H ₂₀ FN ₃ O ₃ S Mol. Wt.: 353.41
Linezolid Impurity B	Linezolid Descarbonyl (R)-Isomer;N,O-Descarbonyl (R)-Linezolid ; N-[(2R)-3-[[3-Fluoro-4-(4-morpholinyl)phenyl]amino]-2-hydroxypropyl] acetamide ;	333753-67-6	C ₁₅ H ₂₂ FN ₃ O ₃	311.35	 C ₁₅ H ₂₂ FN ₃ O ₃ Mol. Wt.: 311.35
Linezolid Impurity C	Linezolid Desfluoro Impurity ; N-[[[(5S)-3-[4-(4-Morpholinyl)phenyl]-2-oxo-5-oxazolidinyl] methyl] acetamide ;	556801-15-1	C ₁₆ H ₂₁ N ₃ O ₄	319.36	 C ₁₆ H ₂₁ N ₃ O ₄ Mol. Wt.: 319.36
Linezolid Impurity F	Linezolid Dimer ;N,N-bis{[[[(5S)-3-[3-Fluoro-4-(4-morpholinyl)phenyl]-2-oxo-5-oxazolidinyl] methyl]} acetamide ;	908143-04-4	C ₃₀ H ₃₅ F ₂ N ₅ O ₇	615.63	 C ₃₀ H ₃₅ F ₂ N ₅ O ₇ Mol. Wt.: 615.63

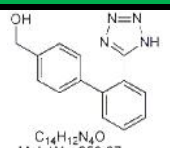
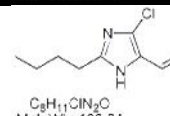
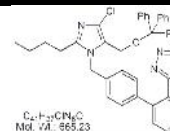
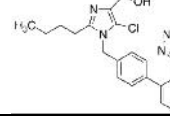
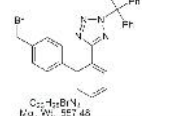
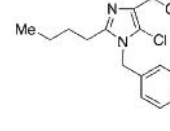
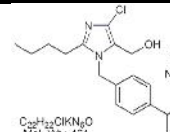
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Linezolid N-Oxide	N-[[[(5S)-3-[3-Fluoro-4-(4-morpholinyl)phenyl]-2-oxo-5-oxazolidinyl] methyl]acetamide N-oxide ;	189038-36-6	C ₁₆ H ₂₀ FN ₃ O ₅	353.35	 C ₁₆ H ₂₀ FN ₃ O ₅ Mol. Wt.: 353.35
Linezolid Impurity D	Linezolid USP RC D ; Linezolid Mesylate Impurity ; (5R)-3-[3-Fluoro-4-(4-morpholinyl)phenyl]-5-[[[(methylsulfonyl)oxy]methyl]-2-oxazolidinone ;	174649-09-3	C ₁₅ H ₁₉ FN ₂ O ₆ S	374.38	 C ₁₅ H ₁₉ FN ₂ O ₆ S Mol. Wt.: 374.38
Linezolid Hydroxymethyl Impurity	Linezolid Desacetamide Hydroxy Impurity ; Linezolid Hydroxymethyl Impurity ; (5R)-3-[3-Fluoro-4-(4-morpholinyl)phenyl]-5-(hydroxymethyl)-2-oxazolidinone ;	168828-82-8	C ₁₄ H ₁₇ FN ₂ O ₄	296.29	 C ₁₄ H ₁₇ FN ₂ O ₄ Mol. Wt.: 296.29
Linezolid Descarbonyl N-Desacetyl Impurity	Linezolid Descarbonyl N-Desacetyl Impurity ; N-[(2R)-3-[[3-Fluoro-4-(4-morpholinyl)phenyl]amino]-2-hydroxypropyl]acetamide ;	333753-72-3	C ₁₃ H ₂₀ FN ₃ O ₂	269.32	 C ₁₃ H ₂₀ FN ₃ O ₂ Mol. Wt.: 269.32
Linezolid Benzyl Impurity	Linezolid Benzyl Ester Impurity ; (3-Fluoro-4-morpholin-4-ylphenyl)carbamic acid benzyl ester ;	168828-81-7	C ₁₈ H ₁₉ FN ₂ O ₃	330.35	 C ₁₈ H ₁₉ FN ₂ O ₃ Mol. Wt.: 330.35
Linezolid Amine Impurity	Linezolid Amine Impurity ; 3-Fluoro-4-(morpholin-4-yl)phenylamine ;	93246-53-8	C ₁₀ H ₁₃ FN ₂ O	196.22	 C ₁₀ H ₁₃ FN ₂ O Mol. Wt.: 196.22
LOPINAVIR					

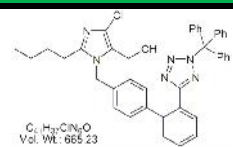
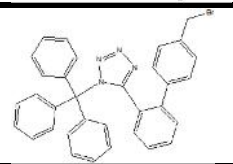
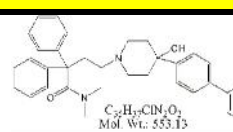
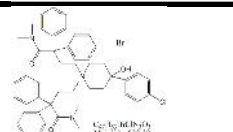
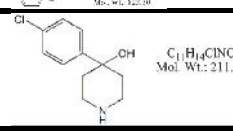
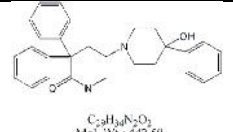
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Lopinavir EP Impurity A	Lopinavir Free Amine (USP); Lopinavir USP Impurity A; (S)-N-[(2S,4S,5S)-5-Amino-4-hydroxy-1,6-diphenylhexan-2-yl]-3-methyl-2-[2-oxotetrahydropyrimidin-1(2H)-yl]butanamide; (2S)-N-[(1S,3S,4S)-1-Benzyl-4-amino-3-hydroxy-5-phenylpentyl]-3-methyl-2-[2-oxotetrahydropyrimidin-1(2H)-yl]butanamide.	NA	C ₂₇ H ₃₈ N ₄ O ₃	466.62	 C ₂₇ H ₃₈ N ₄ O ₃ Mol. Wt.: 466.62
Lopinavir EP Impurity B	Lopinavir USP Impurity B; N-Formylaminoalcohol; (2S)-N-[(1S,3S,4S)-1-Benzyl-4-(formylamino)-3-hydroxy-5-phenylpentyl]-3-methyl-2-[2-oxotetrahydropyrimidin-1(2H)-yl]butanamide;	NA	C ₂₈ H ₃₈ N ₄ O ₄	494.63	 C ₂₈ H ₃₈ N ₄ O ₄ Mol. Wt.: 494.63
Lopinavir EP Impurity D	Sulfo lopinavir, (1R,3R)-1-[(1R)-1-[[2-(2,6-Dimethylphenoxy)acetyl]amino]-2-phenylethyl]-3-[[[(2R)-3-methyl-2-[2-oxotetrahydropyrimidin-1(2H)-yl]butanoyl]amino]-4-phenylbutyl hydrogen sulfate; (2S,3S,5S)-2-[2-(2,6-Dimethylphenoxy)acetamido]-5-[(S)-3-methyl-2-[2-oxotetrahydropyrimidin-1(2H)-yl]butanamido]-1,6-diphenylhexan-3-yl hydrogen sulfate; L	NA	C ₃₇ H ₄₈ N ₄ O ₈ S	708.86	 C ₃₇ H ₄₈ N ₄ O ₈ S Mol. Wt.: 708.86
Lopinavir EP Impurity F	Lopinavir USP F; Lopinavir N-Formylphenoxyacetamide (USP); N-[(1S,2S,4S)-1-Benzyl-4-(formylamino)-2-hydroxy-5-phenylpentyl]-2-(2,6-dimethylphenoxy)acetamide.	NA	C ₂₉ H ₃₄ N ₂ O ₄	474.59	 C ₂₉ H ₃₄ N ₂ O ₄ Mol. Wt.: 474.59
Lopinavir EP Impurity I	Lopinavir USP I; (2S)-N-[(1S,2S,4S)-1-Benzyl-4-[[2-(2,6-dimethylphenoxy)acetyl]amino]-2-hydroxy-5-phenylpentyl]-3-methyl-2-[2-oxotetrahydropyrimidin-1(2H)-yl]butanamide.	NA	C ₃₇ H ₄₈ N ₄ O ₅	628.8	 C ₃₇ H ₄₈ N ₄ O ₅ Mol. Wt.: 628.8

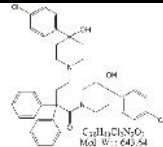
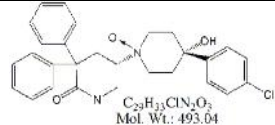
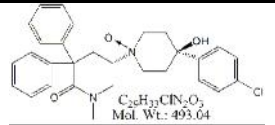
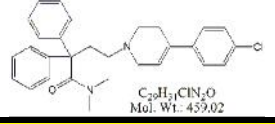
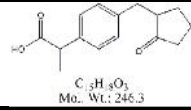
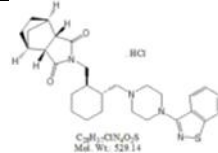
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Lopinavir Impurity T	N,N?-Bis[(1S,3S,4S)-1-benzyl-4-[[2-(2,6-dimethylphenoxy)acetyl]amino]-3-hydroxy-5-phenylpentyl]urea ;	1797024-56-6	C57H66N4O7	919.16	
LORATADINE					
Loratadine EP Impurity A	8-Chloro-6,11-dihydro-11-[N-ethoxycarbonyl-4-piperidinyl]-11-hydroxy-5H-benzo[5,6] cyclohepta[1,2-b]pyridine ;	133284-74-9	C22H25ClN2O3	400.90	 C ₂₂ H ₂₅ ClN ₂ O ₃ Mol. Wt.: 400.90
Loratadine EP Impurity B	8-Chloro-5,6-dihydro-11H-benzo[5,6] cyclohepta[1,2-b]pyridin-11-one ;	31251-41-9	C14H10ClNO	243.69	 C ₁₄ H ₁₀ ClNO Mol. Wt.: 243.69
Loratadine EP Impurity C	4,8-Dichloro-6,11-dihydro-11-[N-ethoxy carbonyl-4-piperidylidene]-5H-benzo[5,6] cyclohepta[1,2-b]pyridine ;	165739-83-3	C22H22Cl2N2O2	417.33	 C ₂₂ H ₂₂ Cl ₂ N ₂ O ₂ Mol. Wt.: 417.33
Loratadine EP Impurity D	8-Chloro-6,11-dihydro-11-(4-piperidylidene)-5H-benzo[5,6]cyclohepta[1,2-b] pyridine ;	100643-71-8	C19H19ClN2	310.82	 C ₁₉ H ₁₉ ClN ₂ Mol. Wt.: 310.82
Loratadine EP Impurity G	8-Chloro-6,11-dihydro-11-(N-methyl-4-piperinylidene)-5H-benzo[5,6]cyclohepta[1,2-b] pyridine ;	38092-89-6	C20H21ClN2	324.85	 C ₂₀ H ₂₁ ClN ₂ Mol. Wt.: 324.85

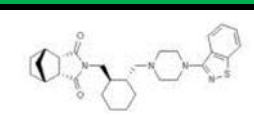
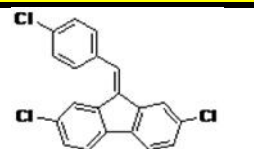
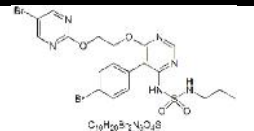
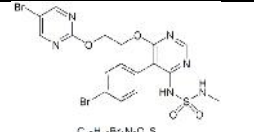
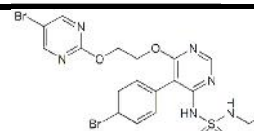
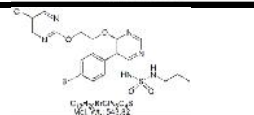
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Loratadine EP Impurity H	Ethyl 4-oxopiperidine-1-carboxylate ;	29976-53-2	C8H13NO3	171.19	 C ₈ H ₁₃ NO ₃ Mo. Wt.: 171.19
Loratadine N-Acetyl Impurity	8-Chloro-6,11-dihydro-11-(N-acetyl-4-piperinylidene)-5H-benzo[5,6]cyclohepta[1,2-b] pyridine ;	117796-52-8	C21H21ClN2O	352.86	 C ₂₁ H ₂₁ ClN ₂ O Mol Wt: 352.86
Loratadine N-Oxide	4-(8-Chloro-5,6-dihydro-1-oxido-11H-benzo[5,6]cyclohepta[1,2-b]pyridin-11-ylidene)-1-piperidinecarboxylic acid ethyl ester ;	165739-62-8	C22H23ClN2O3	398.88	 C ₂₂ H ₂₃ ClN ₂ O ₃ Mol. Wt.: 398.88
Loratadine USP Related Compound D	11-Hydroxy N-Methyl Dihydrodesloratadine ; 8-Chloro-6,11-dihydro-11-[N-methyl-4-piperidinyl]-11-hydroxy-5H-benzo[5,6] cyclohepta[1,2-b]pyridine.	38089-93-9	C20H23ClN2O	342.14	
Loratadine N-Formyl Impurity	8-Chloro-6,11-dihydro-11-(N-formyl-4-piperinylidene)-5H-benzo[5,6]cyclohepta[1,2-b] pyridine.	117810-61-4	C20H19ClN2O	338.11	
Bromo Loratadine	8-Deschloro-8-bromo Loratadine	130642-60-3	C??H??BrN?O?	427.33	

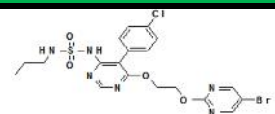
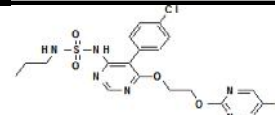
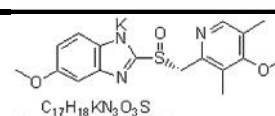
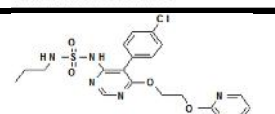
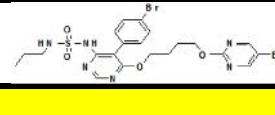

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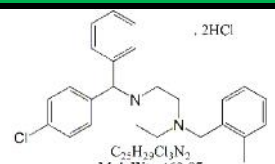
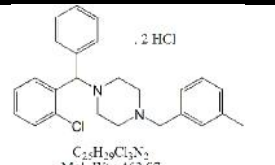
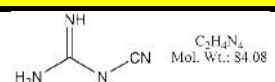
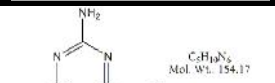
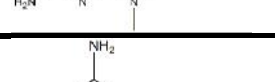
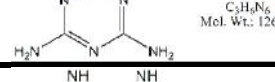
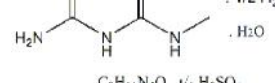
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Losartan EP Impurity B	Losartan Hydroxy Impurity ; Candesartan Hydroxy Impurity ; Irbesartan Hydroxy Impurity ; p-(o-1H-Tetrazol-5-ylphenyl)benzyl alcohol ;	NA	C ₁₄ H ₁₂ N ₄ O	252.27	 C ₁₄ H ₁₂ N ₄ O Mol. Wt.: 252.27
Losartan EP Impurity D	Losartan USP RC A ; 2-Butyl-4-chloro-1H-imidazole-5-carbaldehyde ;	83857-96-9	C ₈ H ₁₁ ClN ₂ O	186.64	 C ₈ H ₁₁ ClN ₂ O Mol. Wt.: 186.64
Losartan EP Impurity I	5-[4'-[[2-Butyl-4-chloro-5-[(triphenyl methoxy)methyl]-1H-imidazol-1-yl]methyl] [1,1'-biphenyl]-2-yl]-2H-tetrazole ;	1006062-28-7	C ₄₁ H ₃₇ ClN ₆ O	665.23	 C ₄₁ H ₃₇ ClN ₆ O Mol. Wt.: 665.23
N-Trityl Losartan Isomer	2-Butyl-5-chloro-1-[[2-[[1-(triphenylmethyl)-1H-tetrazol-5-yl][1,1'-biphenyl]-4-yl]methyl]-1H-imidazole-4-methanol	133727-10-3	C ₄₁ H ₃₇ ClN ₆ O	665.23	 C ₄₁ H ₃₇ ClN ₆ O Mol. Wt.: 665.23
Losartan Bromo N2-Trityl Impurity	Candesartan Bromo N2-Trityl Impurity ; Losartan Bromo N2-Trityl Impurity ; 5-(4'-(Bromomethyl)(1,1'-biphenyl)-2-yl)-2-trityl-2H-tetrazole ;	133051-88-4	C ₃₃ H ₂₅ BrN ₄	557.48	 C ₃₃ H ₂₅ BrN ₄ Mol. Wt.: 557.48
Losartan Isomer Impurity, Potassium Salt	2-Butyl-5-chloro-1-[[2-((2H-tetrazol-5-yl)[1,1'-biphenyl]-4-yl)methyl]-1H-imidazole-4-methanol Potassium Salt; Losartan Isomer Impurity; Losartan EP Impurity C	860644-28-6	C ₂₂ H ₂₂ ClKN ₆ O	461	 C ₂₂ H ₂₂ ClKN ₆ O Mol. Wt.: 461
Losartan Potassium	Losartan MonoPotassium Salt ; 2-Butyl-4-chloro-1-[[2'-(1H-tetrazol-5-yl)[1,1'-biphenyl]-4-yl]methyl]-1H-imidazole-5-methanol monopotassium salt ;	124750-99-8	C ₂₂ H ₂₂ ClKN ₆ O	461	 C ₂₂ H ₂₂ ClKN ₆ O Mol. Wt.: 461

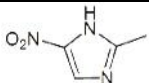
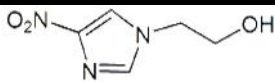
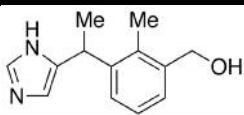
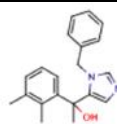
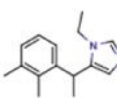
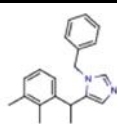
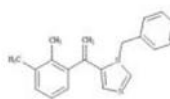
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Losartan EP Impurity H	Losartan N2-Trityl Impurity ; N2-Trityl Losartan ; 2-Butyl-4-chloro-1-[[2'-[2-(triphenylmethyl)-2H-tetrazol-5-yl][1,1'-biphenyl-4-yl]methyl]-1H-imidazole-5-methanol ;	133909-99-6	C41H37ClN6O	665.23	 C ₄₁ H ₃₇ ClN ₆ O Mol. Wt: 665.23
Losartan DI Bromo	5-[4-(Dibromomethyl)[1,1'-biphenyl]-2-yl]-1-(triphenylmethyl)-1H-tetrazole	358685-13-9	C??H??Br?N?	636.38	
LOPERAMIDE					
Loperamide EP Impurity A	4-[4-(4-Chlorobiphenyl-4-yl)-4-hydroxypiperidin-1-yl]-N,N-dimethyl-2,2-diphenylbutanamide ;	1391052-94-0	C35H37ClN2O2	553.13	 C ₃₅ H ₃₇ ClN ₂ O ₂ Mol. Wt: 553.13
Loperamide EP Impurity B	4-(4-Chlorophenyl)-1,1-bis[4-(dimethylamino)-4-oxo-3,3-diphenylbutyl]-4-hydroxypiperidinium bromide ;	NA	C47H53BrClN3O3	823.30	 C ₄₇ H ₅₃ BrClN ₃ O ₃ Mol. Wt: 823.30
Loperamide EP Impurity C	4-(4-Chlorophenyl)piperidin-4-ol ; 4-(4-Chlorophenyl)-4-hydroxypiperidine ;	39512-49-7	C11H14ClNO	211.69	 C ₁₁ H ₁₄ ClNO Mol. Wt: 211.69
Loperamide EP Impurity D	4-(4-Hydroxy-4-phenylpiperidin-1-yl)-N,N-dimethyl-2,2-diphenylbutanamide ;	37743-41-2	C29H34N2O2	442.59	 C ₂₉ H ₃₄ N ₂ O ₂ Mol. Wt: 442.59

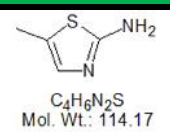
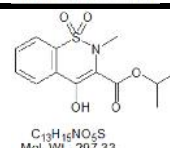
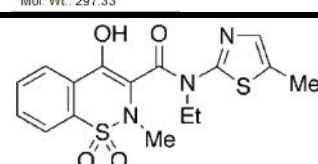
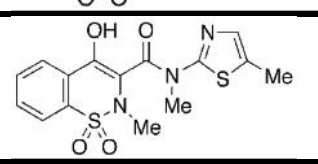
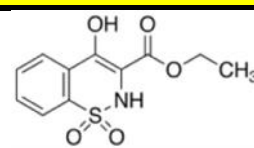
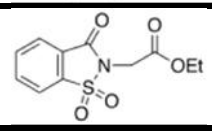
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Loperamide EP Impurity E	4-(4-Chlorophenyl)-1-[4-[4-(4-chlorophenyl)-4-hydroxypiperidin-1-yl]-2,2-diphenylbutanoyl]piperidin-4-ol.	NA	C ₃₈ H ₄₀ Cl ₂ N ₂ O ₃	643.64	 C ₃₈ H ₄₀ Cl ₂ N ₂ O ₃ Mol. Wt.: 643.64
Loperamide EP Impurity F	Loperamide USP RC F ; Loperamide Oxide ; 4-[Trans-4-(4-Chlorophenyl)-4-hydroxy-1-oxidopiperidin-1-yl]-N,N-dimethyl-2,2-diphenylbutanamide ;	106900-12-3	C ₂₉ H ₃₃ ClN ₂ O ₃	493.04	 C ₂₉ H ₃₃ ClN ₂ O ₃ Mol. Wt.: 493.04
Loperamide EP Impurity G	4-[Cis-4-(4-Chlorophenyl)-4-hydroxy-1-oxidopiperidin-1-yl]-N,N-dimethyl-2,2-diphenylbutanamide ;	106900-12-3	C ₂₉ H ₃₃ ClN ₂ O ₃	493.04	 C ₂₉ H ₃₃ ClN ₂ O ₃ Mol. Wt.: 493.04
Loperamide EP Impurity H	4-[4-(4-Chlorophenyl)-3,6-dihydropyridin-1(2H)-yl]-N,Ndimethyl-2,2-diphenylbutanamide ;	NA	C ₂₉ H ₃₁ ClN ₂ O	459.02	 C ₂₉ H ₃₁ ClN ₂ O Mol. Wt.: 459.02
LOXOPROFEN					
Loxoprofen	Methyl-4-[(2-oxocyclopentyl)methyl]benzeneacetic acid ;	68767-14-6	C ₁₅ H ₁₈ O ₃	246.3	 C ₁₅ H ₁₈ O ₃ Mo. Wt.: 246.3
LURASIDONE					
Lurasidone HCl	(3aR,4S,7R,7aS)-2-((1R,2R)-2-[4-(1,2-Benzisothiazol-3-yl)piperazin-1-yl methyl] cyclohexylmethyl)hexahydro-4,7-methano-2H-isoindole-1,3-dione hydrochloride ;	367514-88-3	C ₂₈ H ₃₇ ClN ₄ O ₂ S	529.14	 C ₂₈ H ₃₇ ClN ₄ O ₂ S Mol. Wt.: 529.14

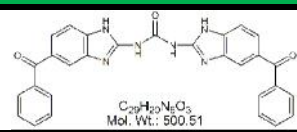
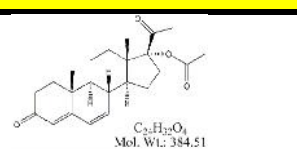
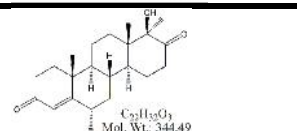
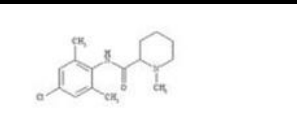
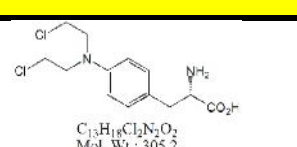
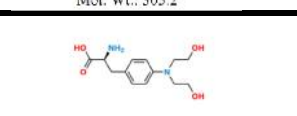
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Lurasidone Isomer I	(endo-1R,2R)-4-[2-(4-Benzo[d]isothiazol-3-yl-piperazin-1-ylmethyl)-cyclohexylmethyl]-4-azatricyclo[5.2.1.0 ^{2,6}]decane-3,5-dione.	NA	C ₂₈ H ₃₆ N ₄ O ₂ S	492.68	
LUMIFANTRINE					
Lumifantrine Impurity I	2,7-Dichlorofluorene-9-para chloro benzene methylene	4364-35-6	C ₂₀ H ₁₁ Cl ₃	357.66	
MACITENTAN					
Macitentan	N-[5-(4-Bromophenyl)-6-[2-[(5-bromo-2-pyrimidinyl)oxy]ethoxy]-4-pyrimidinyl]-N-propyl-Sulfamide ;	441798-33-0	C ₁₉ H ₂₀ Br ₂ N ₆ O ₄ S	588.27	 C ₁₉ H ₂₀ Br ₂ N ₆ O ₄ S Mol. Wt.: 588.27
Macitentan Impurity A	Macitentan N-Despropyl-N-Methyl Impurity ; Macitentan N-methyl Analog ; N-[5-(4-Bromophenyl)-6-[2-[(5-bromo-2-pyrimidinyl)oxy]ethoxy]-4-pyrimidinyl]-N-methylsulfamide ;	441798-25-0	C ₁₇ H ₁₆ Br ₂ N ₆ O ₄ S	560.22	 C ₁₇ H ₁₆ Br ₂ N ₆ O ₄ S Mol. Wt.: 560.22
Macitentan Impurity B	Macitentan N-Despropyl-N-Ethyl Impurity ; Macitentan N-Ethyl Analog ; N-[5-(4-Bromophenyl)-6-[2-[(5-bromo-2-pyrimidinyl)oxy]ethoxy]-4-pyrimidinyl]-N-ethylsulfamide ;	441796-13-0	C ₁₈ H ₁₈ Br ₂ N ₆ O ₄ S	574.25	 C ₁₈ H ₁₈ Br ₂ N ₆ O ₄ S Mol. Wt.: 574.25
Macitentan Impurity 1	Macitentan 5-Desbromo-5-Chloro Impurity ; N-[5-(4-Bromophenyl)-6-[2-[(5-chloro-2-pyrimidinyl)oxy]ethoxy]-4-pyrimidinyl]-N-propyl-Sulfamide ;	NA	C ₁₉ H ₂₀ BrClN ₆ O ₄ S	543.82	 C ₁₉ H ₂₀ BrClN ₆ O ₄ S Mol. Wt.: 543.82

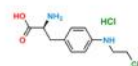
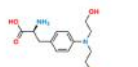
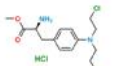

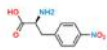
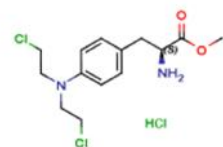
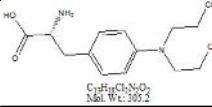
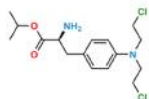
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Macitentan Impurity 2	N-[5-(4-Chlorophenyl)-6-[2-[(5-bromo-2-pyrimidinyl)oxy]ethoxy]-4-pyrimidinyl]-N'-propyl-Sulfamide.	NA	C19H20BrClN6O4S	543.82	
Macitentan Impurity 3	N-[5-(4-Chlorophenyl)-6-[2-[(5-chloro-2-pyrimidinyl)oxy]ethoxy]-4-pyrimidinyl]-N'-propyl-Sulfamide.	NA	C19H20Cl2N6O4S	499.37	
Macitentan Impurity 4	N-[5-(phenyl)-6-[2-[(5-chloro-2-pyrimidinyl)oxy]ethoxy]-4-pyrimidinyl]-N'-propyl-Sulfamide;	NA	C19H21ClN6O4S	464.93	 C ₁₇ H ₁₈ KN ₂ O ₃ S Exact Mass: 383.0706
Macitentan Impurity 5	N-[5-(4-chlorophenyl)-6-[2-[(2-pyrimidinyl)oxy]ethoxy]-4-pyrimidinyl]-N'-propyl-Sulfamide;	NA	C19H21ClN6O4S	464.93	
Macitentan Impurity 6	Diethylene glycol impurity of Mecitentan;	NA	C21H24Br2N6O4S	616.33	
MARBOFLOXACIN					
Marbofloxacin Impurity F	Marbofloxacin N-oxide ; 4-(6-carboxy-9-fluoro-3-methyl-7-oxo-2,3-dihydro-7H-[1,3,4]oxadiazino[6,5,4-ij]quinolin-10-yl)-1-methylpiperazine 1-oxide	194023-72-8	C17H19FN4O5	378.4	
MECLIZINE					

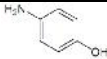
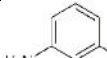
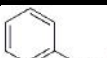
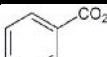
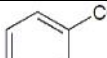
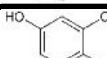
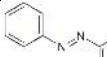
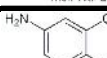
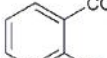
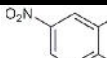
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Meclizine USP RC B	Isomeclizine Dihydrochloride ; Meclizine ortho-Methyl Isomer Dihydrochloride ; 1-[(4-Chlorophenyl)(phenyl)methyl]-4-(2-methylbenzyl)piperazine dihydrochloride ;	NA	C ₂₅ H ₂₉ Cl ₃ N ₂	463.87	 C ₂₅ H ₂₉ Cl ₃ N ₂ Mol. Wt.: 463.87
Meclizine Ortho-Chloro Isomer (USP)	Meclizine ortho-Chloro Isomer (USP) ; 1-[(2-Chlorophenyl)(phenyl)methyl]-4-(3-methylbenzyl)piperazine dihydrochloride ;	NA	C ₂₅ H ₂₉ Cl ₃ N ₂	463.87	 C ₂₅ H ₂₉ Cl ₃ N ₂ Mol. Wt.: 463.87
METFORMIN					
Metformin EP Impurity A	Metformin EP Impurity A ; Metformin USP RC A ; 1-Cyanoguanidine ;	461-58-5	C ₂ H ₄ N ₄	84.08	 C ₂ H ₄ N ₄ Mol. Wt.: 84.08
Metformin EP Impurity C	N,N-Dimethyl-1,3,5-triazine-2,4,6-triamine ;	1985-46-2	C ₅ H ₁₀ N ₆	154.17	 C ₅ H ₁₀ N ₆ Mol. Wt.: 154.17
Metformin EP Impurity D	Metformin EP Impurity D ; Melamine ; 1,3,5-Triazine-2,4,6-triamine ;	108-78-1	C ₃ H ₆ N ₆	126.12	 C ₃ H ₆ N ₆ Mol. Wt.: 126.12
Metformin EP Impurity E	Metformin EP Impurity E ; Metformin USP RC B ; N-Desmethyl Metformin Hemisulfate Monohydrate ; 1-Methyl Biguanide Hemisulfate Monohydrate ;	36801-25-9	C ₃ H ₁₁ N ₅ O ₄ S	213.22	 C ₃ H ₁₁ N ₅ O ₄ · 1/2 H ₂ SO ₄ Mol. Wt.: 182.19
Metformin EP Impurity F	N-Methylmethanamine HCl ; Dimethylamine HCl ;	506-59-2	C ₂ H ₈ ClN	81.54	 C ₂ H ₈ ClN Mol. Wt.: 81.54

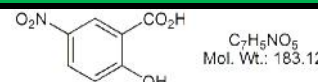
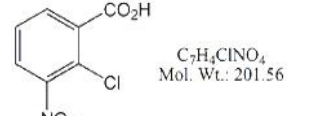
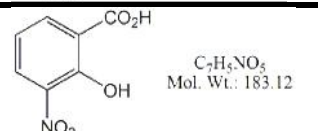
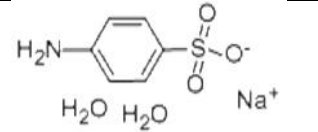
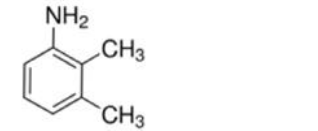
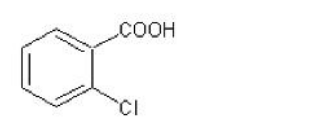
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Metronidazole EP Impurity A	Metronidazole Benzoate EP Impurity B ; 2-Methyl-4-nitroimidazole ;	696-23-1	C ₄ H ₅ N ₃ O ₂	127.10	 <chem>Cc1c[nH]c1[N+](=O)[O-]</chem> C ₄ H ₅ N ₃ O ₂ Mol. Wt.: 127.10
METRONIDAZOLE					
Metronidazole Impurity C	2-(4-Nitro-1H-imidazol-1-yl)ethanol ; 4-Nitro-1H-imidazole-1-ethanol ;	5006-69-9	C ₅ H ₇ N ₃ O ₃	157.13	 <chem>OCCN1C=NC=C1[N+](=O)[O-]</chem> C ₅ H ₇ N ₃ O ₃ Mol. Wt.: 157.13
3-Hydroxy Medetomidine	3-[1-(1H-Imidazol-5-yl)ethyl]-2-methylbenzenemethanol;	128366-50-7	C ₁₃ H ₁₆ N ₂ O	216.28	
N-Benzyl Hydroxy Medetomidine	NA	NA	C ₂₀ H ₂₂ N ₂ O	306.4	
Ethyl Medetomidine	NA	NA	C ₁₅ H ₂₀ N ₂	228.33	
N-Benzyl Medetomidine	1-(1-Benzyl-1H-imidazol-5-yl)-1-(2,3-dimethylphenyl)ethanol;	NA	C ₂₀ H ₂₂ N ₂ O	306.4	
N-Benzyl Vinyl Analog Medetomidine	NA	NA	C ₂₀ H ₂₀ N ₂	288.40	
MELOXICAM					

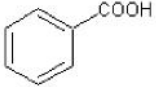
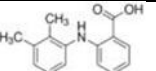
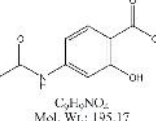
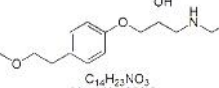
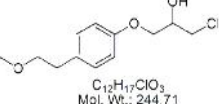
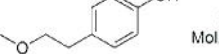
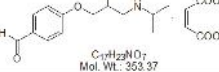
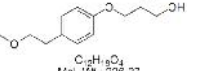
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Meloxicam EP Impurity B	Meloxicam EP Impurity B ; Meloxicam USP RC B ; Meloxicam BP Impurity B ; 2-Amino-5-methyl-thiazole ;	7305-71-7	C ₄ H ₆ N ₂ S	114.17	 C ₄ H ₆ N ₂ S Mol. Wt.: 114.17
Meloxicam EP Impurity F	Meloxicam EP Impurity F ; Piroxicam EP Impurity L ; Isopropyl 4-hydroxy-2-methyl-2H-1,2-benzothiazine-3-carboxylate 1,1-dioxide ;	NA	C ₁₃ H ₁₅ NO ₅ S	297.33	 C ₁₃ H ₁₅ NO ₅ S Mol. Wt.: 297.33
Amido Ethyl Meloxicam	NA	881399-30-0	C ₁₆ H ₁₇ N ₃ O ₄ S ₂	379.45	
Amido Methyl Meloxicam	4-Hydroxy-N,2-dimethyl-N-(5-methyl-2-thiazolyl)- 2H-1,2-benzothiazine-3-carboxamide 1,1-Dioxide;	892395-41-4	C ₁₅ H ₁₅ N ₃ O ₄ S ₂	365.43	
PIROXICAM					
Piroxicam Impurity H	4-Hydroxy-2H-1,2-benzothiazine-3-carboxylic Acid Ethyl Ester 1,1-Dioxide; Piroxicam Impurity H;	24683-21-4	C ₁₁ H ₁₁ NO ₅ S	269.27	
Piroxicam Impurity E	3-Oxo-1,2-benzisothiazole-2(3H)-acetic Acid Ethyl Ester 1,1-Dioxide; Ethyl (1,1-Dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)acetate; Piroxicam Impurity E;	24683-20-3	C ₁₁ H ₁₁ NO ₅ S	269.27	

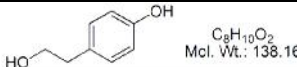
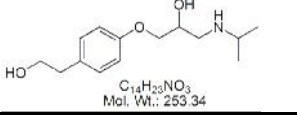
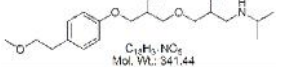
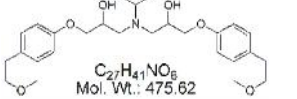
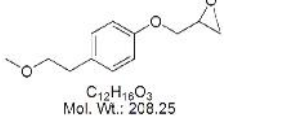
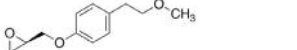
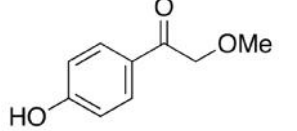
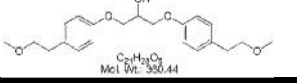
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Mebendazole EP Impurity G	N,N'-bis(5-Benzoyl-1H-benzimidazol-2-yl)urea ;	129165-82-8	C ₂₉ H ₂₀ N ₆ O ₃	500.51	 C ₂₉ H ₂₀ N ₆ O ₃ Mol. Wt.: 500.51
MEDROXYPROGESTERONE					
Medroxyprogesterone Acetate EP Impurity G	6-Methyl-3,20-dioxopregna-4,6-dien-17-yl acetate ;	595-33-5	C ₂₄ H ₃₂ O ₄	384.51	 C ₂₄ H ₃₂ O ₄ Mol. Wt.: 384.51
Medroxyprogesterone Acetate EP Impurity I	17a?-Hydroxy-6,17a-dimethyl-D-homoandrost-4-ene-3,17-dione ;	NA	C ₂₂ H ₃₂ O ₃	344.49	 C ₂₂ H ₃₂ O ₃ Mol. Wt.: 344.49
MEPIVACAINE					
Mepivacaine Impurity E	Mepivacaine EP Impurity E	NA	C ₁₅ H ₂₁ ClN ₂ O	280.80	
MELPHALAN					
Melphalan	4-[Bis(2-Chloroethyl)amino]-L-phenylalanine ;	148-82-3	C ₁₃ H ₁₈ Cl ₂ N ₂ O ₂	305.2	 C ₁₃ H ₁₈ Cl ₂ N ₂ O ₂ Mol. Wt.: 305.2
Melphalan Impurity A	Dihydroxy Melphalan	72143-20-5	C ₁₃ H ₂₀ N ₂ O ₄	268.3	

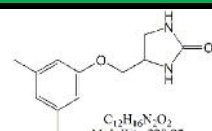
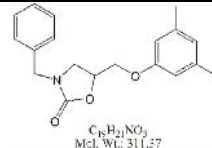
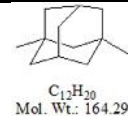
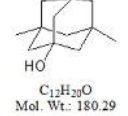
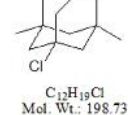
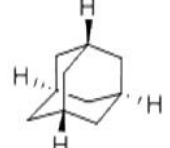
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Melphalan Impurity C	Melphalan Mono-chloroethyl Impurity HCl	573704-41-3	C ₁₁ H ₁₅ ClN ₂ O ₂ .HCl	242.71	
Melphalan Impurity D	Monohydroxy Melphalan; Monochloro Melphalan;	61733-01-5	C ₁₃ H ₁₉ ClN ₂ O ₃	286.7	
Melphalan Impurity H	Melphalan Methyl Ester	62978-52-3	C ₁₄ H ₂₁ Cl ₃ N ₂ O	355.68	
Melphalan Impurity K	N-Ethylethanamine Hydrochloride	109-89-7	C ₄ H ₁₂ ClN	109.60	
Melphalan Impurity 1	4-Nitro-L-phenylalanine Hydrate	949-99-5	C ₉ H ₁₀ N ₂ O ₄	210.19	
Melphalan Methyl Ester Hydrochloride	4-[Bis(2-chloroethyl)amino]-L-phenylalanine Methyl Ester Hydrochloride; 4-[Bis(2-chloroethyl)amino]-L-phenylalanine Methyl Ester Monohydrochloride; NSC 133726	62978-52-3	C _{??} H _{??} Cl _{??} N _{??} O _{??} ?	355.69	
Melphalan Enantiomer	Melphalan R isomer; (2R)-2-amino-3-{4-[bis(2-chloroethyl)amino]phenyl}propanoic acid	NA	C ₁₃ H ₁₈ Cl ₂ N ₂ O ₂	305.2	 <small>C₁₃H₁₈Cl₂N₂O₂ Mol. Wt.: 305.2</small>
Melphalan Isopropyl Ester	isopropyl (S)-2-amino-3-(4-(bis(2-chloroethyl)amino)phenyl)propanoate	NA	C ₁₆ H ₂₄ Cl ₂ N ₂ O ₂	347.29	
MESALAMINE					

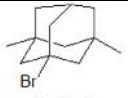
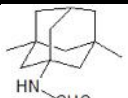
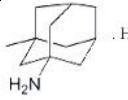
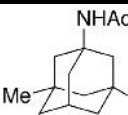
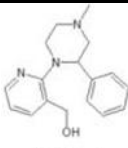
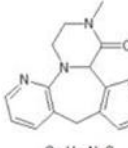
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Mesalamine EP Impurity A	4-Aminophenol	123-30-8	C ₆ H ₇ NO	109.13	 C ₆ H ₇ NO Mol. Wt.: 109.13
Mesalamine EP Impurity B	3-Aminophenol ;	591-27-5	C ₆ H ₇ NO	109.13	 C ₆ H ₇ NO Mol. Wt.: 109.13
Mesalamine EP Impurity C	2-Aminophenol ;	95-55-6	C ₆ H ₇ NO	109.13	 C ₆ H ₇ NO Mol. Wt.: 109.13
Mesalamine EP Impurity D	3-Aminobenzoic acid ;	99-05-8	C ₇ H ₇ NO ₂	137.14	 C ₇ H ₇ NO ₂ Mol. Wt.: 137.14
Mesalamine EP Impurity F	3-Amino-2-hydroxybenzoic acid ;	570-23-0	C ₇ H ₇ NO ₃	153.14	 C ₇ H ₇ NO ₃ Mol. Wt.: 153.14
Mesalamine EP Impurity G	2,5-Dihydroxybenzoic acid ;	490-79-9	C ₇ H ₆ O ₄	154.12	 C ₇ H ₆ O ₄ Mol. Wt.: 154.12
Mesalamine EP Impurity I	Phenylazosalicylic Acid ; 2-Hydroxy-5-(phenyldiazenyl)benzoic acid ;	3147-53-3	C ₁₃ H ₁₀ N ₂ O ₃	242.23	 C ₁₃ H ₁₀ N ₂ O ₃ Mol. Wt.: 242.23
Mesalamine EP Impurity J	Diaminosalicylic Acid ; 3,5-Diamino-2-hydroxybenzoic acid ;	112725-89-0	C ₇ H ₈ N ₂ O ₃	168.15	 C ₇ H ₈ N ₂ O ₃ Mol. Wt.: 168.15
Mesalamine EP Impurity L	2-Chlorobenzoic acid ;	118-91-2	C ₇ H ₅ ClO ₂	156.57	 C ₇ H ₅ ClO ₂ Mol. Wt.: 156.57
Mesalamine EP Impurity M	2-Chloro-5-nitrobenzoic acid ;	2516-96-3	C ₇ H ₄ ClNO ₄	201.56	 C ₇ H ₄ ClNO ₄ Mol. Wt.: 201.56

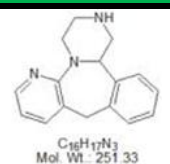
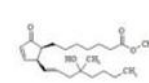
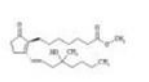
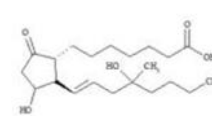
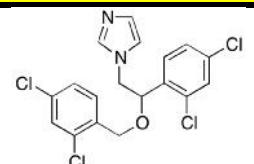
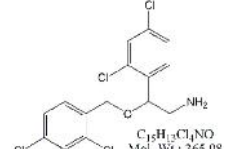
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Mesalamine EP Impurity N	5-Nitrosalicylic Acid ; 2-Hydroxy-5-nitrobenzoic acid ;	96-97-9	C7H5NO5	183.12	 C ₇ H ₅ NO ₅ Mol. Wt.: 183.12
Mesalamine EP Impurity Q	2-Chloro-3-nitrobenzoic acid ;	3970-35-2	C7H4ClNO4	201.56	 C ₇ H ₄ ClNO ₄ Mol. Wt.: 201.56
Mesalamine EP Impurity R	2-Hydroxy-3-nitrobenzoic acid ;	85-38-1	C7H5NO5	183.12	 C ₇ H ₅ NO ₅ Mol. Wt.: 183.12
Monosodium Salt/Impurity O	Ccris 7446;Einecs 208-208-5;SODIUM SULFANILATE;sodiumsulphanilate;Sodium sulfanylate;SODIUM ANILINESULFONATE;AMino benzene sulfonate;4-AMPYRONE 99% HIGH GRADE;4-SULFOANILINE SODIUM SALT;p-Sulfoaniline sodium salt	515-74-2	C6H6NNaO3S	195.17	 H ₂ O H ₂ O Na ⁺
MEFENAMIC ACID					
Mefenamic Acid Impurity A	1-Amino-2,3-dimethylbenzene, 2,3-Dimethylaniline, 2,3-Xylidine, 3-Amino-o-xylene, CN-Cbl	87-59-2	(CH3)2C6H3NH2	121.18	
Mefenamic Acid Impurity C	2-chlorobenzoic acid	118-91-2	C7H5ClO2	156.56	

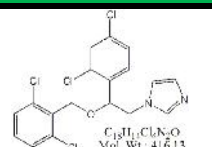
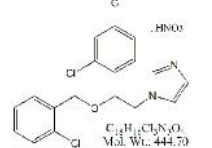
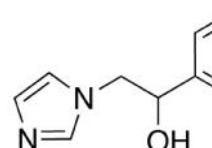
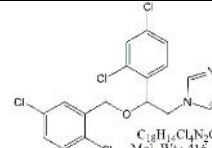
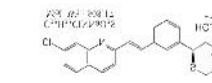
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Mefenamic Acid Impurity D	Benzoic acid	65-85-0	C ₇ H ₆ O ₂	122.12	
Mefenamic Acid Standard	2-[(2,3-Dimethylphenyl)amino]benzoic acid, N-(2,3-Xylyl)anthranilic acid	61-68-7	C ₁₅ H ₁₅ NO ₂	241.29	
METOCLOPRAMIDE					
Metoclopramide EP Impurity H	4-(Acetylamino)-2-hydroxybenzoic acid ;	50-86-2	C ₉ H ₉ NO ₄	195.17	 C ₉ H ₉ NO ₄ Mol. Wt.: 195.17
METOPROLOL					
Metoprolol EP Impurity A	(2RS)-1-(Ethylamino)-3-[4-(2-methoxyethyl)phenoxy]propan-2-ol ;	109632-08-8	C ₁₄ H ₂₃ NO ₃	253.34	 C ₁₄ H ₂₃ NO ₃ Mol. Wt.: 253.34
Metoprolol USP RC B	(+/-)1-Chloro-2-hydroxy-3-[4-(2-methoxyethyl)phenoxy]propane ;	56718-76-4	C ₁₂ H ₁₇ ClO ₃	244.71	 C ₁₂ H ₁₇ ClO ₃ Mol. Wt.: 244.71
Metoprolol EP Impurity B	4-(2-Methoxyethyl)phenol ;	56718-71-9	C ₉ H ₁₂ O ₂	152.19	 C ₉ H ₁₂ O ₂ Mol. Wt.: 152.19
Metoprolol EP Impurity C	4-[(2RS)-2-Hydroxy-3-[(1-methylethyl)amino]propoxy]benzaldehyde maleate ;	29122-74-5	C ₁₃ H ₁₉ NO ₃	237.29	 C ₁₃ H ₁₉ NO ₃ Mol. Wt.: 237.29
Metoprolol EP Impurity D	(2RS)-3-[4-(2-Methoxyethyl)phenoxy]propane-1,2-diol ;	62572-90-1	C ₁₂ H ₁₈ O ₄	226.27	 C ₁₂ H ₁₈ O ₄ Mol. Wt.: 226.27

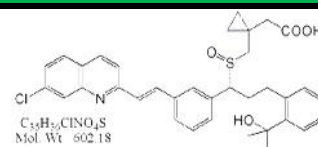
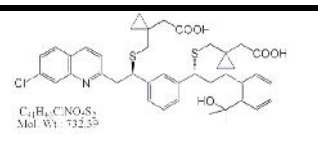
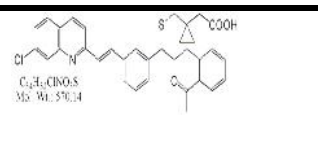
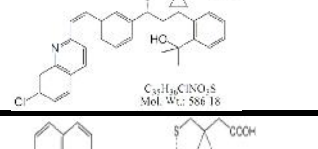
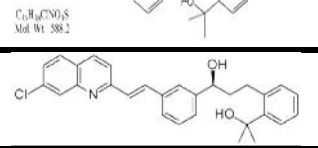
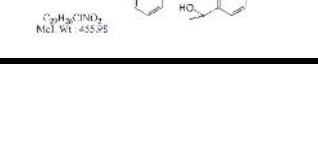

Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Metoprolol EP Impurity G	2-(4-Hydroxyphenyl)ethanol ;	501-94-0	C ₈ H ₁₀ O ₂	138.16	 C ₈ H ₁₀ O ₂ Mol. Wt.: 138.16
Metoprolol EP Impurity H	4-[2-Hydroxy-3-[(1-methylethyl)amino]propoxy]-benzeneethanol ; (2RS)-1-[4-(2-Hydroxyethyl)phenoxy]-3-[(1-methylethyl)amino]propan-2-ol ;	62572-94-5	C ₁₄ H ₂₃ NO ₃	253.34	 C ₁₄ H ₂₃ NO ₃ Mol. Wt.: 253.34
Metoprolol EP Impurity J	1-[2-Hydroxy-3-[(1-methylethyl)amino]propoxy]-3-[4-(2-methoxyethyl)phenoxy]propan-2-ol ;	163685-37-8	C ₁₈ H ₃₁ NO ₅	341.44	 C ₁₈ H ₃₁ NO ₅ Mol. Wt.: 341.44
Metoprolol EP Impurity O	Metoprolol EP Impurity O ; Metoprolol USP RC D ; 1,1-[(1-Methylethyl)imino]bis[3-[4-(2-methoxyethyl)phenoxy]propan-2-ol] ;	154784-36-8	C ₂₇ H ₄₁ NO ₆	475.62	 C ₂₇ H ₄₁ NO ₆ Mol. Wt.: 475.62
Metoprolol Epoxy Methoxyethyl Impurity	1-[2-(2-Methoxyethyl)phenoxy]-2,3-epoxypropane ;	56718-70-8	C ₁₂ H ₁₆ O ₃	208.25	 C ₁₂ H ₁₆ O ₃ Mol. Wt.: 208.25
(R)-3-[4-(2-Methoxyethyl)Phenoxy]-1,2-Epoxypropane	(-)-4-(2-Methoxyethyl)phenyl Glycidyl Ether; (R)-[[4-(2-Methoxyethyl)phenoxy]methyl]oxirane;	133397-54-3	C ₁₂ H ₁₆ O ₃	208.25	
2-Methoxy-4-Hydroxyacetophenone	1-(4-Hydroxyphenyl)-2-methoxyethanone; 4-Hydroxy-2-methoxyacetophenone; 2-Methoxy-1-(4-hydroxyphenyl)ethanone.	32136-81-5	C ₉ H ₁₀ O ₃	166.17	
Metoprolol Dimer	1,3-bis[4-(2-Methoxyethyl) phenoxy]propan-2-ol ;	230975-30-1	C ₂₁ H ₂₈ O ₅	360.44	 C ₂₁ H ₂₈ O ₅ Mol. Wt.: 360.44
METAXALONE					

Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Metaxalone USP RC A	4-((3,5-Dimethylphenoxy)methyl)imidazolidin-2-one ;	NA	C ₁₂ H ₁₆ N ₂ O ₂	220.27	 C ₁₂ H ₁₆ N ₂ O ₂ Mol. Wt.: 220.27
Metaxalone N-Benzyl Impurity	3-Benzyl-5-((3,5-dimethylphenoxy)methyl)oxazolidin-2-one ;	NA	C ₁₉ H ₂₁ NO ₃	311.37	 C ₁₉ H ₂₁ NO ₃ Mol. Wt.: 311.37
MEMANTINE					
Memantine USP RC A	1,3-Dimethyladamantane ;	702-79-4	C ₁₂ H ₂₀	164.29	 C ₁₂ H ₂₀ Mol. Wt.: 164.29
Memantine USP RC B	3,5-Dimethyladamantane-1-ol ;	707-37-9	C ₁₂ H ₂₀ O	180.29	 C ₁₂ H ₂₀ O Mol. Wt.: 180.29
Memantine USP RC C	1-Chloro-3,5-dimethyladamantane ;	707-36-8	C ₁₂ H ₁₉ Cl	198.73	 C ₁₂ H ₁₉ Cl Mol. Wt.: 198.73
Adamantane	ADAMANTANE;LABOTEST-BB LT00007844;HOMOADAMANTANE;TRICYCLO[3.3.1.1]DECANE;TRICYCLO[3.3.1.13,7]DECANE;TRICYCLODECANE;[6]diadamantane;3,5,1,7-[1,2,3,4]butanetetraylnaphthalene,decahydro-	281-23-2	C ₁₀ H ₁₆	136.23	

Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Memantine USP RC D	1-Bromo-3,5-dimethyladamantane ;	941-37-7	C ₁₂ H ₁₉ Br	243.18	 C ₁₂ H ₁₉ Br Mol. Wt.: 243.18
Memantine USP RC E	N-3,5-Dimethyladamantan-1-yl formamide ;	351329-88-9	C ₁₃ H ₂₁ NO	207.31	 C ₁₃ H ₂₁ NO Mol. Wt.: 207.31
Memantine Desmethyl Impurity HCl	3-Methyltricyclo[3.3.1.1 ^{3,7}]decan-1-amine hydrochloride ;	33103-93-4	C ₁₁ H ₂₀ CIN	201.74	 C ₁₁ H ₂₀ CIN Mol. Wt.: 201.74
N-Acetyl Memantine	N-(3,5-Dimethyltricyclo[3.3.1.1 ^{3,7}]dec-1-yl)acetamide; N-(3,5-Dimethyl-1-adamantyl)acetamide; 1-Acetamido-3,5-dimethyladamantane;	19982-07-1	C ₁₄ H ₂₃ NO	221.34	 NHAc Me
MIRTAZAPINE					
Mirtazapine EP Impurity B	[2-[(2RS)-4-Methyl-2-phenylpiperazin-1-yl]pyridin-3-yl]methanol ;	NA	C ₁₇ H ₂₁ N ₃ O	283.37	 C ₁₇ H ₂₁ N ₃ O Mol. Wt.: 283.37
Mirtazapine EP Impurity C	Mirtazapine USP RC C ; Mirtazapine Lactam ; 2-Methyl-3,4,10,14b-tetrahydrobenzo[c]pyrazino[1,2-a]pyrido[3,2-f]azepin-1(2H)-one ;	191546-96-0	C ₁₇ H ₁₇ N ₃ O	279.34	 C ₁₇ H ₁₇ N ₃ O Mol. Wt.: 279.34

Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Mirtazapine EP Impurity D	Mirtazapine USP Related Compound A ; N-Desmethyl Mirtazapine ; 1,2,3,4,10,14b-Hexahydropyrazino[2,1-a]pyrido[2,3-c][2]benzazepine ;	61337-68-6	C ₁₆ H ₁₇ N ₃	251.33	 C ₁₆ H ₁₇ N ₃ Mol. Wt. 251.33
MISOPROSTOL					
Misoprostol Impurity (A-Form)	NA	NA	C ₂₂ H ₃₆ O ₄	364.53	
Misoprostol Impurity (B-Form)	NA	NA	C ₂₂ H ₃₆ O ₄	364.54	
Misoprostol Acid Impurity	NA	61337-87-9	C ₂₁ H ₃₆ O ₅	368.52	
MICONAZOLE					
Miconazole	1-[2,4-Dichloro-?-(2,4-dichlorobenzyl)oxy]phenethyl]imidazole; (◆)-Miconazole; Daktanol; Daktarin IV; Florid-F; Lauriad; MJR 1762; Miconazole; Monistat IV; NSC 170986; R 18134;	22916-47-8	C ₁₈ H ₁₄ Cl ₄ N ₂ O	416.13	
Miconazole Impurity C	(2RS)-2-[(2,4-Dichlorobenzyl)oxy]-2-(2,4-dichlorophenyl)ethanamine ;	67358-54-7	C ₁₅ H ₁₃ Cl ₄ NO	365.08	 C ₁₅ H ₁₃ Cl ₄ NO Mol. Wt.: 365.08

Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Miconazole EP Impurity D	1-[(2RS)-2-[(2,6-Dichlorobenzyl)oxy]-2-(2,4-dichlorophenyl)ethyl]-1H-imidazole ;	27523-40-6	C ₁₈ H ₁₄ Cl ₄ N ₂ O	416.13	 C ₁₈ H ₁₄ Cl ₄ N ₂ O Mol. Wt.: 416.13
Miconazole EP Impurity I	Miconazole BP Impurity I ; Miconazole USP RC I ; 1-[(2RS)-2-[(2-Chlorobenzyl)oxy]-2-(2,4-dichlorophenyl)ethyl]-1H-imidazole nitrate ;	47363-37-1	C ₁₈ H ₁₅ Cl ₃ N ₂ O	381.68	 C ₁₈ H ₁₅ Cl ₃ N ₂ O Mol. Wt.: 444.70
Rac-1-(2,4-Dichlorophenyl)-2-(1-Imidazolyl)Ethanol	-(2,4-Dichlorophenyl)-1H-imidazole-1-ethanol; (+/-)-?-(2,4-Dichlorophenyl)-1H-imidazole-1-ethanol; ?-(2,4-Dichlorophenyl)-1H-imidazole-1-ethanol; Econazole EP Impurity A.	24155-42-8	C ₁₁ H ₁₀ Cl ₂ N ₂ O	257.12	
Miconazole EP Impurity G	Miconazole BP Impurity G ; 1-[(2RS)-2-[(2,5-Dichlorobenzyl)oxy]-2-(2,4-dichlorophenyl)ethyl]-1H-imidazole ;	909277-71-0	C ₁₈ H ₁₄ Cl ₄ N ₂ O	416.13	 C ₁₈ H ₁₄ Cl ₄ N ₂ O Mol. Wt.: 416.13
MONTELUKAST					
Montelukast EP Impurity A	Montelukast EP Impurity A (Sodium Salt) ; Montelukast Sodium (S)-Isomer ; ent-Montelukast Sodium Salt ; 1-[[[(1S)-1-[3-[(1E)-2-(7-Chloro-2-quinolinyl)ethenyl]phenyl]-3-[2-(1-hydroxy-1-methylethyl)phenyl]propyl]thio]methyl]cyclopropaneacetic acid sodium salt.	190078-45-6	C ₃₅ H ₃₅ ClN ₂ NaO ₃	608.17	

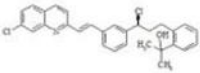
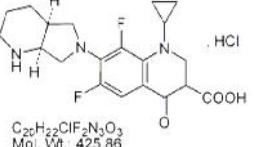
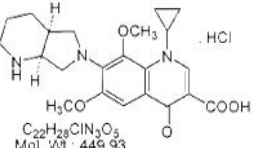
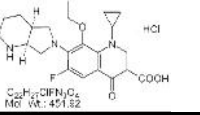
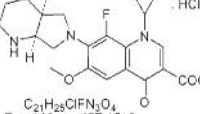
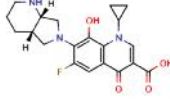
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Montelukast EP Impurity C	Montelukast EP Impurity C ; Montelukast USP Related Compound A ; Montelukast Sulfoxide ; Montelukast S-Oxide ; [1-[[[1-[3-[(E)-2-(7-chloroquinolin-2-yl)ethenyl]phenyl]-3-[2-(2-hydroxypropyl)phenyl]propyl]sulfinyl]methyl]cyclopropyl]acetic acid.	909849-96-3	C35H36ClNO4S	602.18	 C ₃₅ H ₃₆ ClNO ₄ S Mol. Wt: 602.18
Montelukast EP Impurity E	Montelukast EP Impurity E ; Montelukast USP Related Compound D ; Michael Adduct (R,S)-Isomer ; 1-[[[(1R)-1-[3-[(1S)-1-[[1-(Carboxymethyl)cyclopropyl]methyl]thio]-2-(7-chloro-2-quinolinyl)ethyl]phenyl]-3-[2-(1-hydroxy-1-methylethyl)phenyl]propyl]thio]methyl]-cyclopropaneacetic acid.	1187586-58-8	C41H46ClNO5S	732.39	 C ₄₁ H ₄₆ ClNO ₅ S Mol. Wt: 732.39
Montelukast EP Impurity F	Montelukast EP Impurity F ; Montelukast USP Related Compound E ; Montelukast Methylketone ; [1-[[[(1R)-3-(2-acetylphenyl)-1-[3-[(E)-2-(7-chloroquinolin-2-yl)ethenyl]phenyl]propyl]sulfonyl]methyl]cyclopropyl]acetic acid.	937275-23-5	C34H32ClNO3S	570.14	 C ₃₄ H ₃₂ ClNO ₃ S Mol. Wt: 570.14
Montelukast Cis Isomer G	NA	774538-96-4	C35H36ClNO3S	586.18	 C ₃₅ H ₃₆ ClNO ₃ S Mol. Wt: 586.18
Montelukast Dihydro Impurity	Dihydro Montelukast (Acid) ; 1-[[[(1R)-1-[3-[2-(7-Chloro-2-quinolinyl)ethyl]phenyl]-3-[2-(1-hydroxy-1-methylethyl)phenyl]propyl]thio]methyl]cyclopropaneacetic acid ; Montelukast saturated impurity.	142147-98-6	C35H38ClNO3S	588.2	 C ₃₅ H ₃₈ ClNO ₃ S Mol. Wt: 588.2
Montelukast Quid-8 Impurity	2-(2-(3-(2-(7-Chloro-2-quinolinyl)-ethenylphenyl)-3-hydroxypropyl)phenyl)-2-propanol.	142569-70-8	C29H28ClNO2	457.99	 C ₂₉ H ₂₈ ClNO ₂ Mol. Wt: 457.99
Montelukast Ketone Impurity (USP)	(E)-1-[3-[2-(7-Chloroquinolin-2-yl)vinyl]phenyl]-3-[2-(2-hydroxypropan-2-yl)phenyl]propan-1-one ;	1258428-71-5	C29H26ClNO2	455.98	 C ₂₉ H ₂₆ ClNO ₂ Mol. Wt: 455.98

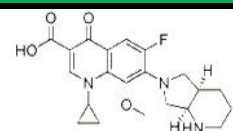
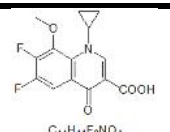
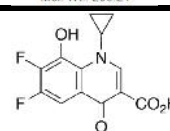
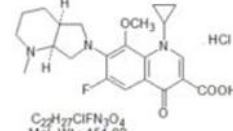
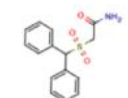
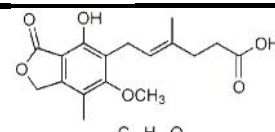
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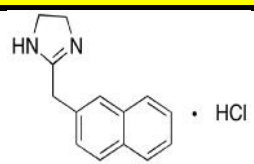
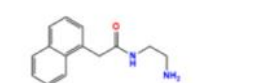
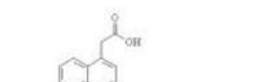
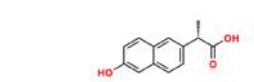
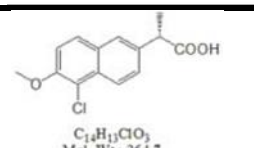
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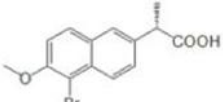
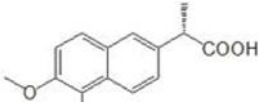
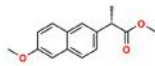
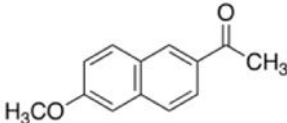
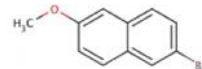
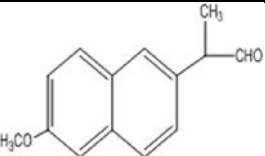


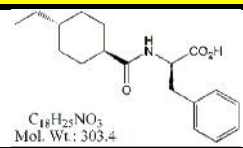
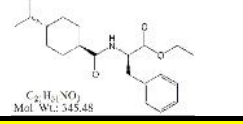
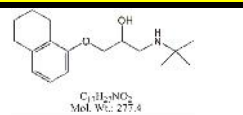
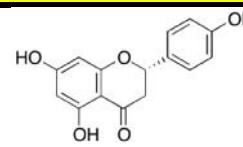
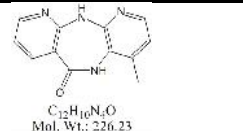
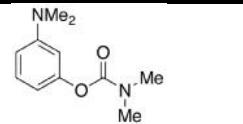
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Montelukast Nitrile Impurity	1-[[[(1R)-1-[3-[(1E)-2-(7-Chloro-2-quinolinyl)ethenyl]phenyl]-3-[2-(1-hydroxy-1-methylethyl)phenyl]propyl]thio]methyl]cyclopropaneacetonitrile	866923-62-8	C ₃₅ H ₃₅ ClN ₂ O ₂ S	567.18	
1-(Mercaptomethyl)Cyclopropaneacetonitrile	2-(1-(Mercaptomethyl)cyclopropyl)acetonitrile	866923-64-0	C ₆ H ₉ NS	127.21	
Montelukast Amide	1-[[[(1R)-1-[3-[(1E)-2-(7-Chloro-2-quinolinyl)ethenyl]phenyl]-3-[2-(1-hydroxy-1-methylethyl)phenyl]propyl]thio]methyl]cyclopropaneacetamide ;	866923-63-9	C ₃₅ H ₃₇ ClN ₂ O ₂ S	585.20	
Montelukast Sulfone	1-[[[(1R)-1-[3-[2-(7-Chloro-2-quinolinyl)ethenyl]phenyl]-3-[2-(1-hydroxy-1-methylethyl)phenyl]propyl]sulfonyl]methyl]cyclopropaneacetic Acid ;	1266620-74-9	C ₃₅ H ₃₆ ClNO ₅ S	618.18	
Montelukast Acid	(R-(E))-1-(((1-(3-(2-(7-Chloro-2-quinolinyl)ethenyl)phenyl)-3-(2-(1-hydroxy-1-methylethyl)phenyl)propyl)thio)methyl)cyclopropaneacetic acid ; 2-[1-[[[(1R)-1-[3-[(E)-2-(7-Chloroquinolin-2-yl)ethenyl]phenyl]-3-[2-(2-hydroxypropan-2-yl)phenyl]propyl]sulfanyl]methyl]cyclopropyl]acetic acid ;	158966-92-8	C ₃₅ H ₃₆ ClNO ₃ S	586.18	
Montelukast R,S-Isomer	NA	NA	C ₄₁ H ₄₆ ClNO ₅ S	732.41	
Montelukast Sulfoxide	[1-[[[1-[3-[(E)-2-(7-chloroquinolin-2-yl)ethenyl]phenyl]-3-[2-(2-hydroxypropan-2-yl)phenyl]propyl]sulfinyl]methyl]cyclopropyl]acetic acid ;	909849-96-3	C ₃₅ H ₃₆ ClNO ₄ S	602.18	

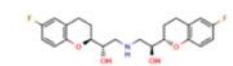
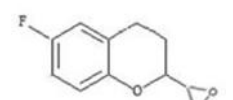
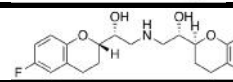
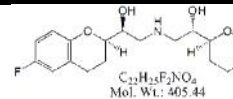
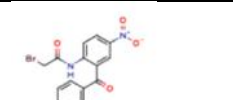

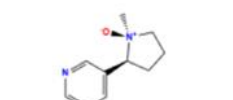
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Montelukast Chloro Alcohol Impurity	NA	880769-28-8	C ₂₉ H ₂₇ Cl ₂ NO	476.45	
MOXIFLOXACIN					
Moxifloxacin EP Impurity A	1-Cyclopropyl-6,8-difluoro-7-[(4aS,7aS)-octahydro-6H-pyrrolo[3,4-b]pyridin-6-yl]-4-oxo-1,4-dihydroquinoline-3-carboxylic acid HCl ;	151213-15-9	C ₂₀ H ₂₁ F ₂ N ₃ O ₃	389.40	 C ₂₀ H ₂₁ F ₂ N ₃ O ₃ Mol. Wt.: 425.86
Moxifloxacin EP Impurity B	1-Cyclopropyl-6,8-dimethoxy-7-[(4aS,7aS)-octahydro-6H-pyrrolo[3,4-b]pyridin-6-yl]-4-oxo-1,4-dihydroquinoline-3-carboxylic acid HCl ;	1029364-73-5	C ₂₂ H ₂₇ N ₃ O ₅	413.47	 C ₂₂ H ₂₈ ClN ₃ O ₅ Mol. Wt.: 449.93
Moxifloxacin EP Impurity C	1-Cyclopropyl-8-ethoxy-6-fluoro-7-[(4aS,7aS)-octahydro-6H-pyrrolo [3,4-b]pyridin-6-yl]-4-oxo-1,4-dihydroquinoline-3-carboxylic acid HCl	1029364-75-7	C ₂₂ H ₂₆ FN ₃ O ₄	415.46	 C ₂₂ H ₂₆ ClFN ₃ O ₄ Mol. Wt.: 451.32
Moxifloxacin EP Impurity D	1-Cyclopropyl-8-fluoro-6-methoxy-7-[(4aS,7aS)-octahydro-6H-pyrrolo [3,4-b]pyridin-6-yl]-4-oxo-1,4-dihydroquinoline-3-carboxylic acid hydrochloride ;	1029364-77-9	C ₂₁ H ₂₅ ClFN ₃ O ₄	437.15	 C ₂₁ H ₂₅ ClFN ₃ O ₄ Exact Mass: 437.1518
Moxifloxacin EP Impurity E	7-[(4aS,7aS)-octahydro-1H-pyrrolo[3,4-b]pyridin-6-yl]-1-cyclopropyl-6-fluoro-8-hydroxy-4-oxo-1,4-dihydroquinoline-3-carboxylic acid	721970-36-1	C ₂₀ H ₂₂ FN ₃ O ₄	387.41	

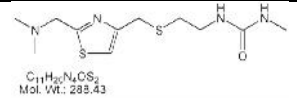
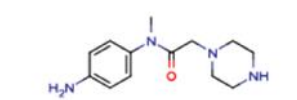
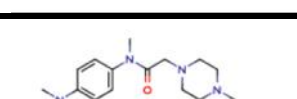
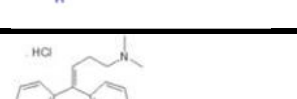
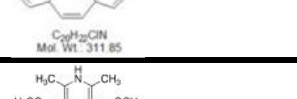
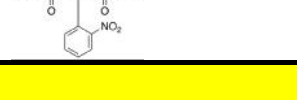
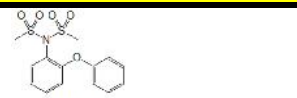
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Moxifloxacin impurity P	ent-Moxifloxacin;Moxifloxacin isoMer;(4R,7R)-Moxifloxacin;Moxifloxacin impurity P;Moxifloxacin (R,R)-Isomer;(4R,7R)-Moxifloxacin Hydrochloride 2;1-Cyclopropyl-6-fluoro-1,4-dihydro-8-methoxy-7-[(4aR,7aR)-octahydro-6H-pyrrolo[3,4-b]pyridin-6-yl]-4-oxo-3-quinolinecarboxylic acid;3-Quinolinecarboxylic acid, 1-cyclopropyl-6-fluoro-1,4-dihydro-8-Methoxy	268545-13-7	C21H24FN3O4	401	
Moxifloxacin Difluoro Methoxy Acid Impurity	1-Cyclopropyl-6,7-difluoro-1,4-dihydro-8-methoxy-4-oxo-3-quinoline carboxylic acid ;	112811-72-0	C14H11F2NO4	295.24	 C ₁₄ H ₁₁ F ₂ NO ₄ Mol. Wt.: 295.24
Moxifloxacin 8-Hydroxy Quinolic Acid	1-Cyclopropyl-6,7-difluoro-1,4-dihydro-8-hydroxy-4-oxo-3-quinolinecarboxylic Acid	154093-72-8	C13H9F2NO4	281.21	
Moxifloxacin N-Methyl Analog	1-Cyclopropyl-6-fluoro-1,4-dihydro-8-methoxy-7-[(4aS,7aS)-octahydro-1-methyl-6H-pyrrolo[3,4-b]pyridin-6-yl]-4-oxo-3-quinolinecarboxylic acid hydrochloride ;	721970-37-2	C22H27ClFN3O4	451.92	 C ₂₂ H ₂₇ ClFN ₃ O ₄ Mol. Wt.: 451.92
MODAFINIL					
Modafinil Impurity B	2-[(Diphenylmethyl)sulfonyl]acetamide ;	118779-53-6	C15H15NO3S	289.35	
Mycophenolate Mofetil EP Impurity F	(4E)-?6-(4-Hydroxy-?6-methoxy-?7-methyl-?3-oxo-?1,?3-dihydro-?2-benzofuran-?5-yl)-?4-methylhex-?4-enoic acid ;	24280-93-1	C17H20O6	320.34	 C ₁₇ H ₂₀ O ₆ Mol. Wt.: 320.34

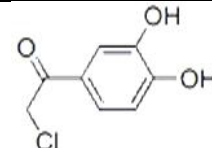
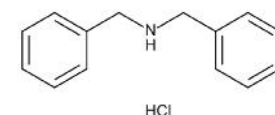
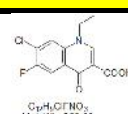
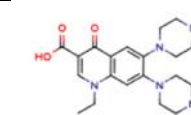
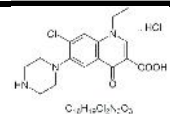
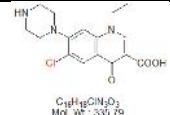
	Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
N	NAPHAZOLINE					
	Naphazoline HCl	4,5-Dihydro-2-(1-naphthalenylmethyl)-1H-imidazole Hydrochloride; 4,5-Dihydro-2-(1-naphthalenylmethyl)-1H-Imidazole Monohydrochloride; 2-(1-Naphthylmethyl)-2-imidazoline Monohydrochloride; 2-(1-Naphthylmethyl)-2-imidazoline Hydrochloride; 2-(?-Naphthylmethyl)-2-imidazoline Hydrochloride; Ak-Con; Albalon; Allerest Eye Drops; Clera; Coldan; Comfort E	550-99-2	C ₁₄ H ₁₅ ClN ₂	246.74	
	Naphazoline RC A	N-(2-aminoethyl)-2-(naphthalen-1-yl)acetamide.	36321-43-4	C ₁₄ H ₁₆ N ₂ O	228.29	
	Naphazoline Impurity B	NA	86-87-3	C ₁₂ H ₁₀ O ₂	186.21	
	NAPROXEN					
	Naproxen EP Impurity A	(?S)-6-Hydroxy-?-methyl-2-naphthaleneacetic Acid ; (S)-2-(6-Hydroxy-2-naphthyl)propionic Acid ; (S)-6-O-Desmethylnaproxen ; (S)-6-Demethylnaproxen	52079-10-4	C ₁₃ H ₁₂ O ₃	216.23	
	Naproxen Impurity B	(2S)-2-(5-Chloro-6-methoxynaphthalen-2-yl)propanoic acid ;	89617-86-7	C ₁₄ H ₁₃ ClO ₃	264.7	 C ₁₄ H ₁₃ ClO ₃ Mol. Wt: 264.7

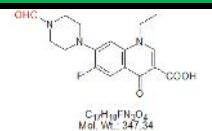
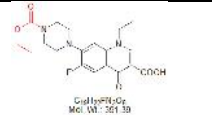
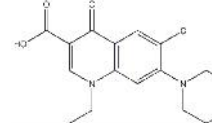
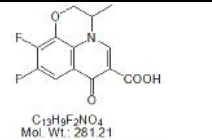
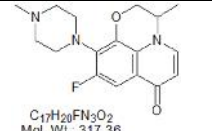
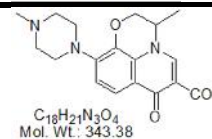
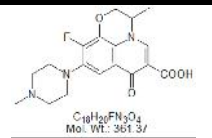
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Naproxen Impurity C	(2S)-2-(5-Bromo-6-methoxynaphthalen-2-yl)propanoic acid ;	84236-26-0	C ₁₄ H ₁₃ BrO ₃	309.16	 C ₁₄ H ₁₃ BrO ₃ Mol. Wt.: 309.16
Naproxen Impurity D	(2S)-2-(5-Iodo-6-methoxynaphthalen-2-yl)propanoic acid ;	116883-62-6	C ₁₄ H ₁₃ IO ₃	356.16	 C ₁₄ H ₁₃ IO ₃ Mol. Wt.: 356.16
Naproxen EP Impurity E	Methyl (2S)-2-(6-methoxynaphthalen-2-yl)propanoate	26159-35-3	C ₁₅ H ₁₆ O ₃	244.29	
Naproxen Impurity L	1-(6-Methoxy-2-naphthalenyl)ethanone; 2-Acetyl-6-methoxynaphthalene; 6-Acetyl-2-methoxynaphthalene; 6-Methoxy-2-acetylnaphthalene; 6-Methoxy-2-naphthyl Methyl Ketone; NSC 105564; Naproxen Impurity L;	3900-45-6	C ₁₃ H ₁₂ O ₂	200.23	
Naproxen Impurity N	2-Bromo-6-methoxynaphthalene ;2-Methoxy-6-bromonaphthalene; 6-Methoxy-2-bromonaphthalene; NSC 3236; Naproxen Impurity N;	5111-65-9	C ₁₁ H ₉ BrO	237.09	
Naproxen Aldehyde Impurity	2-(2-Methoxynaphalen-6-yl)propanal	27602-75-1	C ₁₄ H ₁₄ O ₂	214.26	

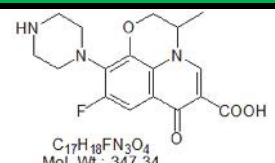
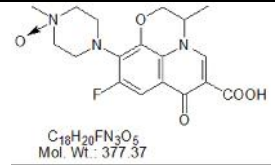
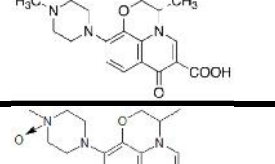
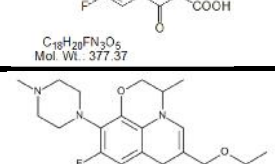
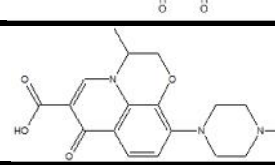

Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
NATEGLINIDE					
Nateglinide Impurity E	N-[(Trans-4-Ethylcyclohexyl)carbonyl]-D-phenylalanine ;	105746-45-0	C ₁₈ H ₂₅ NO ₃	303.4	 C ₁₈ H ₂₅ NO ₃ Mol. Wt.: 303.4
Nateglinide Impurity G	Ethyl-N-[[trans-4-(1-methylethyl)cyclohexyl]carbonyl]-D-phenylalaninate ;	187728-85-4	C ₂₁ H ₃₁ NO ₃	345.48	 C ₂₁ H ₃₁ NO ₃ Mol. Wt.: 345.48
NADOLOL					
Nadolol Impurity G	(2RS)-1-[(1,1-dimethylethyl)amino]-3-[(5,6,7,8-tetrahydronaphthalen-1-yl)oxy]propan-2-ol ;	33841-03-1	C ₁₇ H ₂₇ NO ₂	277.4	 C ₁₇ H ₂₇ NO ₂ Mol. Wt.: 277.4
NARINGENIN					
Naringenin	(S)-2,3-Dihydro-5,7-dihydroxy-2-(4-hydroxyphenyl)-4H-1-benzopyran-4-one; Flavanone, 4,5,7-trihydroxy- (8C); Naringenin; (-)-(2S)-Naringenin; (-)-Naringenin; (2S)-4,5,7-Trihydroxy-flavanone; (2S)-Naringenin; NSC 11855; NSC 34875; Naringenine; Naringetol; S-Dihydrogenistein; Salipurol; Salipurpol;	480-41-1	C ₁₅ H ₁₂ O ₅	272.25	
Nevirapine Impurity B	4-Methyl-5,11-dihydro-6H-dipyrido[3,2-b:2',3'-e][1,4]diazepin-6-one ;	287980-84-1	C ₁₂ H ₁₀ N ₄ O	226.23	 C ₁₂ H ₁₀ N ₄ O Mol. Wt.: 226.23
Nor Neostigmine	Dimethylcarbamic Acid 3-(Dimethylamino)phenyl Ester; Dimethylcarbamic Acid m-(Dimethylamino)phenyl Ester; 3-(Dimethylamino)phenyl Dimethylcarbamate; Norneostigmine;	16088-19-0	C ₁₁ H ₁₆ N ₂ O ₂	208.26	

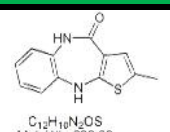
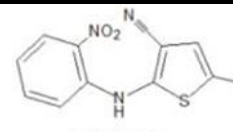
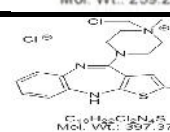
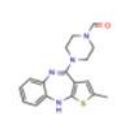
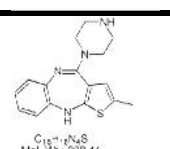
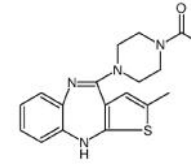
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
NEBIVOLOL					
Nebivolol Impurity A	Nebivolol Impurity A;(1S)-1-[(2S)-6-fluoro-3,4-dihydro-2H-1-benzopyran-2-yl]-2-[[[(2S)-2-[(2S)-6-fluoro-3,4-dihydro-2H-1-benzopyran-2-yl]-2-hydroxyethyl]amino]ethan-1-ol];	118457-16-2	C22H25F2NO4	405.45	
Nebivolol Spot A	[1S*(S*)]-6-Fluro-3,4dihydro-2-Oxiranyl-2H-1Benzopyran	NA	C11H11FO2	194.21	
Nebivolol Impurity B	[2S-[2R*[R*[S*(R*)]]]]-?,?-[Iminobis(methylene)]bis[6-fluoro-3,4-dihydro-2H-1-benzopyran-2-methanol];	119365-25-2	C22H25F2NO4	405.44	
Nebivolol (R,S,S,S)-Isomer	(?S,?S,2R,2S)-?,?-[Iminobis(methylene)]bis[6-fluoro-3,4-dihydro-2H-1-benzopyran-2-methanol];	920299-33-8	C22H25F2NO4	405.44	 C ₂₂ H ₂₅ F ₂ N ₂ O ₄ Mol. Wt.: 405.44
NITRAZEPAM					
Nitrazepam Impurity C	N-(2-Benzoyl-4-nitrophenyl)-2-bromoacetamide; 2-Benzoyl-2-bromo-4-nitroacetanilide	2011-70-3	C15H11BrN2O4	363.16	
NICOTINE					
Nicotine Impurity B	Nicotyrine;3-(1-Methyl-1H-pyrrol-2-yl)pyridine; 3-(1-Methylpyrrol-2-yl)pyridine; Nicotyrine; 3,2-Nicotyrine;	487-19-4	C10H10N2	158.21	
Nicotine 1-oxide	(1S,2S)-1-methyl-2-(pyridin-3-yl)pyrrolidine 1-oxide	51095-86-4	C10H14N2O	178.23	

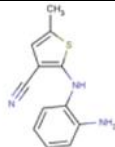
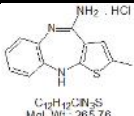
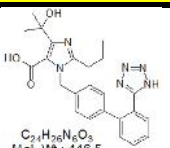
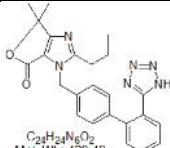
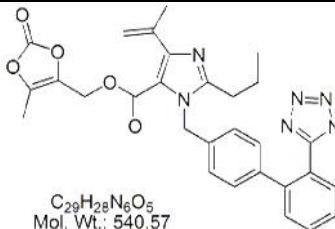
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
NIZATIDINE					
Nizatidine Impurity I	N-[2-[[[2-[(Dimethylamino) methyl]thiazol-4-yl] methyl]sulphonyl] ethyl]-N'-methylurea ;	82586-81-0	C ₁₁ H ₂₀ N ₄ CS ₂	288.43	 C ₁₁ H ₂₀ N ₄ CS ₂ Mol. Wt.: 288.43
Nintedanib Desmethyl Piperazine Impurity	N-(4-aminophenyl)-N-methyl-2-(piperazin-1-yl)acetamide.	NA	C ₁₃ H ₂₀ N ₄ O	248.33	
Nintedanib N-Methyl Aniline Impurity	N-methyl-N-[4-(methylamino)phenyl]-2-(4-methylpiperazin-1-yl)acetamide.	NA	C ₁₅ H ₂₄ N ₄ O	276.38	
Hydroxydehydro Nifedipine Carboxylate	2-(Hydroxymethyl)-6-methyl-4-(2-nitrophenyl)-3,5-pyridinedicarboxylic Acid 5-Methyl Ester;4-(2-Nitrophenyl)-2-hydroxymethyl-5-methoxycarbonyl -6-methylpyridine-3-carboxylic Acid;	34783-31-8	C ₁₆ H ₁₄ N ₂ O ₇	346.29	 C ₁₆ H ₁₄ N ₂ O ₇ Mol. Wt.: 346.29
Nifedipine	1,4-Dihydro-2,6-dimethyl-4-(2-nitrophenyl)-3,5-pyridinedicarboxylic Acid Dimethyl Ester; Adalate; Aldipine; Anifed; Cardiate;	21829-25-4	C ₁₇ H ₁₈ N ₂ O ₆	346.33	 C ₁₇ H ₁₈ N ₂ O ₆ Mol. Wt.: 346.33
NIMESULIDE					
Nimesulide Impurity E	N,N-bis(Methylsulphonyl)-2-phenoxyaniline ;	NA	C ₁₄ H ₁₅ NO ₅ S ₂	341.4	 C ₁₄ H ₁₅ NO ₅ S ₂ Mol. Wt.: 341.4
Nimesulide Impurity D	4-Nitro-2-phenoxyaniline ;	NA	C ₁₂ H ₁₀ N ₂ O ₃	230.22	 C ₁₂ H ₁₀ N ₂ O ₃ Mol. Wt.: 230.22

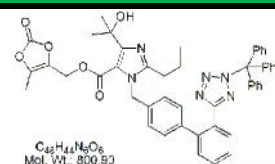
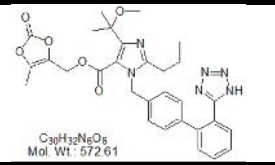
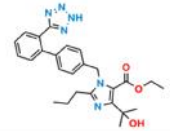
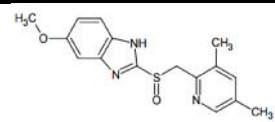
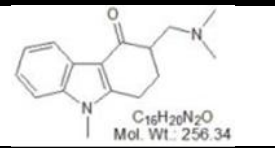
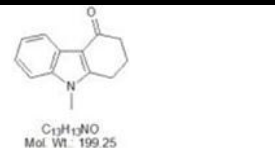
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
NORADRENALIN					
Noradrenalin Impurity E	Chloroacetylcatechol; Chloroacetyl catechol; Chloroacetylcatechol; 2-Chloro-3',4'-dihyd;	99-40-1	C8H7ClO3	186.59	
Noradrenalin Impurity F	N-benzyl-1-phenylmethanamine	20455-68-9	C14H15N	20455-68-9	 HCl
NORFLOXACIN					
Norfloxacin EP Impurity A	7-Chloro-1-ethyl-6-fluoro-4-oxo-1,4-dihydroquinoline-3-carboxylic acid	68077-26-9	C12H9ClFNO3	269.66	 C ₁₂ H ₉ ClFNO ₃ Mol. Wt. 269.66
Norfloxacin EP Impurity C	1-Ethyl-4-oxo-6,7-bis(piperazin-1-yl)-1,4-dihydroquinoline-3-carboxylic acid	177554-64-2	C20H27N5O3	385.47	
Norfloxacin EP Impurity E	7-Chloro-1-ethyl-4-oxo-6-(piperazin-1-yl)-1,4-dihydroquinoline-3-carboxylic acid HCl ;	75001-78-4	C16H18ClN3O3 . HCl	335.79	 C ₁₆ H ₁₈ ClN ₃ O ₃ Mol. Wt.: 372.25
Norfloxacin EP Impurity F	Norfloxacin 6-Chloro Analog ; 6-Chloro-1-ethyl-4-oxo-7-(piperazin-1-yl)-1,4-dihydroquinoline-3-carboxylic acid ;	NA	C16H18ClN3O3	335.79	 C ₁₆ H ₁₈ ClN ₃ O ₃ Mol. Wt.: 335.79

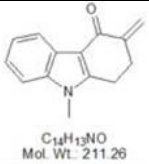
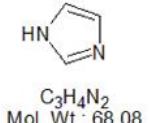
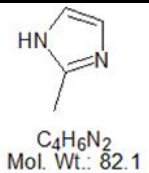
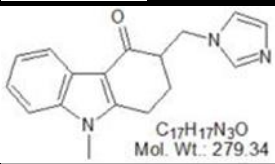
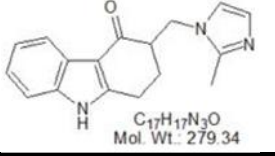
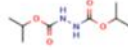
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Norfloxacin EP Impurity G	1-Ethyl-6-fluoro-7-(4-formylpiperazin-1-yl)-4-oxo-1,4-dihydroquinoline-3-carboxylic acid ;	70459-04-0	C ₁₇ H ₁₈ FN ₃ O ₄	347.34	 C ₁₇ H ₁₈ FN ₃ O ₄ Mol. Wt. 347.34
Norfloxacin EP Impurity H	7-[4-(Ethoxycarbonyl)piperazin-1-yl]-1-ethyl-6-fluoro-4-oxo-1,4-dihydro quinoline-3-carboxylic acid ;	105440-01-5	C ₁₉ H ₂₂ FN ₃ O ₅	391.39	 C ₁₉ H ₂₂ FN ₃ O ₅ Mol. Wt. 391.39
Norfloxacin imp 1	6-Chloro-1-Ethyl-4-Oxo-7-(Piperazin-1-yl)-1,4-Dihydroquinoline-3-Carboxylic acid	67681-84-9	C ₁₆ H ₁₈ ClN ₃ O ₃	335.79	
OFLOXACIN					
O Ofloxacin EP Impurity A	Ofloxacin EP Impurity A ; Ofloxacin Difluoro Carboxylic Acid ; (RS)-9,10-Difluoro-3-methyl-7-oxo-2,3-dihydro-7H-pyrido[1,2,3-de][1,4]benzoxazine-6-carboxylic acid (FPA) ;	82419-35-0	C ₁₃ H ₉ F ₂ N ₃ O ₄	281.21	 C ₁₃ H ₉ F ₂ N ₃ O ₄ Mol. Wt. 281.21
Ofloxacin EP Impurity B	Ofloxacin EP Impurity B ; Ofloxacin Descarboxyl Impurity ; (RS)-9-Fluoro-2,3-dihydro-3-methyl-10-(4-methyl-1-piperazinyl)-7-oxo-7H-pyrido[1,2,3-de]-1,4-benzoxazine ;	123155-82-8	C ₁₇ H ₂₀ FN ₃ O ₂	317.36	 C ₁₇ H ₂₀ FN ₃ O ₂ Mol. Wt. 317.36
Ofloxacin EP Impurity C	Ofloxacin EP Impurity C ; Ofloxacin Desfluoro Impurity ; (RS)-2,3-Dihydro-3-methyl-10-(4-methyl-1-piperazinyl)-7-oxo-7H-pyrido[1,2,3-de]-1,4-benzoxazine-6-carboxylic acid ;	NA	C ₁₈ H ₂₁ N ₃ O ₄	343.38	 C ₁₈ H ₂₁ N ₃ O ₄ Mol. Wt. 343.38
Ofloxacin EP Impurity D	Ofloxacin EP Impurity D ; Ofloxacin 10-Fluoro Isomer ; (RS)-10-Fluoro-2,3-dihydro-3-methyl-9-(4-methyl-1-piperazinyl)-7-oxo-7H-pyrido[1,2,3-de]-1,4-benzoxazine-6-carboxylic acid	197291-75-1	C ₁₈ H ₂₀ FN ₃ O ₄	361.37	 C ₁₈ H ₂₀ FN ₃ O ₄ Mol. Wt. 361.37

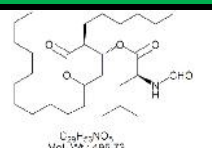
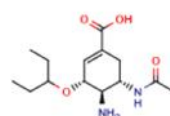
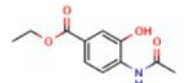
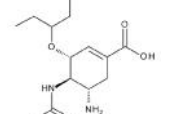
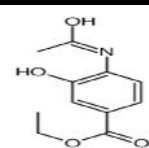
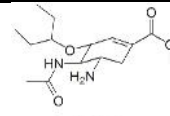
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Ofloxacin EP Impurity E	Ofloxacin EP Impurity E ; Ofloxacin USP Related Compound A ; N-Desmethyl Ofloxacin ; (RS)-9-Fluoro-2,3-dihydro-3-methyl-10-(1-piperazinyl)-7-oxo-7H-pyrido[1,2,3-de]-1,4-benzoxazine-6-carboxylic acid ;	82419-52-1	C17H18FN3O4	347.34	 C ₁₇ H ₁₈ FN ₃ O ₄ Mol. Wt.: 347.34
Ofloxacin EP Impurity F	Ofloxacin EP Impurity F ; Ofloxacin N-Oxide ; (RS)-9-Fluoro-2,3-dihydro-3-methyl-10-(4-methyl-1-piperazinyl)-7-oxo-7H-pyrido[1,2,3-de]-1,4-benzoxazine-6-carboxylic acid N-oxide ;	104721-52-0	C18H20FN3O5	377.37	 C ₁₈ H ₂₀ FN ₃ O ₅ Mol. Wt.: 377.37
Defluoro Levofloxacin	(3S)-2,3-Dihydro-3-methyl-10-(4-methyl-1-piperazinyl)-7-oxo-7H-pyrido[1,2,3-de]-1,4-benzoxazine-6-carboxylic Acid; Levofloxacin Related Compound F (USP),	117620-85-6	C18H21N3O4	343.38	
Ofloxacin N-Oxide	Ofloxacin EP Impurity F ;(RS)-9-Fluoro-2,3-dihydro-3-methyl-10-(4-methyl-1-piperazinyl)-7-oxo-7H-pyrido[1,2,3-de]-1,4-benzoxazine-6-carboxylic acid N-oxide ;	104721-52-0	C18H20FN3O5	377.37	 C ₁₈ H ₂₀ FN ₃ O ₅ Mol. Wt.: 377.37
Ofloxacin Ethyl Ester	NA	107884-32-2	C20H24FN3O4	389.42	
Ofloxacin Desfluoro	2,3-Dihydro-3-methyl-10-(4-methyl-1-piperazinyl)-7-oxo-7H-pyrido[1,2,3-de]-1,4-benzoxazine-6-carboxylic acid	95848-94-5	C18H21N3O4	343.38	
OLANZAPINE					

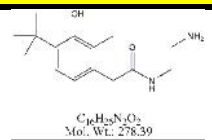
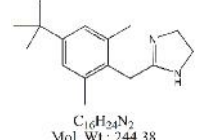
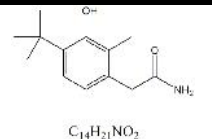
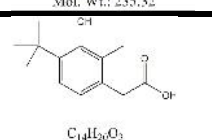
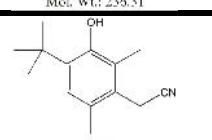
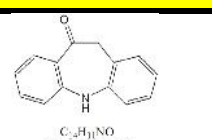
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Olanzapine EP Impurity B	2-Methyl-10H-thieno-[2,3-b][1,5]benzodiazepin-4[5H]-one ;	221176-49-4	C ₁₂ H ₁₀ N ₂ O ₂ S	230.29	 C ₁₂ H ₁₀ N ₂ O ₂ S Mol. Wt.: 230.29
Olanzapine EP Impurity A	5-Methyl-2-((2-nitrophenyl)amino)-3-thiophenecarbonitrile ;	138564-59-7	C ₁₂ H ₉ N ₃ O ₂ S	259.28	 C ₁₂ H ₉ N ₃ O ₂ S Mol. Wt.: 259.28
Olanzapine EP Impurity C	Olanzapine N-Chloromethyl Chloride ; 1-(Chloromethyl)-1-methyl-4-(2-methyl-10H-thieno[2,3-b]-[1,5]benzodiazepin-4-yl)piperazin-1-ium chloride ;	719300-59-1	C ₁₈ H ₂₂ Cl ₂ N ₄ S	397.37	 C ₁₈ H ₂₂ Cl ₂ N ₄ S Mol. Wt.: 397.37
N-Demethyl-N-Formylolanzapine	4-(2-Methyl-10H-thieno[2,3-b][1,5]benzodiazepin-4-yl)-1-piperazinecarboxaldehyde.	639460-79-0	C ₁₇ H ₁₈ N ₄ O ₂ S	326.42	
Olanzapine N-Desmethyl Analog	2-Methyl-4-(1-piperazinyl)-10H-thieno[2,3-b][1,5]benzodiazepine ;	161696-76-0	C ₁₆ H ₁₈ N ₄ S	298.41	 C ₁₆ H ₁₈ N ₄ S Mol. Wt.: 298.41
Ethanone, 1-[4-(2-Methyl-10H-Thieno[2,3-B][1,5]Benzodiazepin-4-yl)-1-Piperazinyl]	Ethanone, 1-[4-(2-methyl-10H-thieno[2,3-b][1,5]benzodiazepin-4-yl)-1-piperazinyl]	935272-10-9	C ₁₈ H ₂₀ N ₄ O ₂ S	340.44	

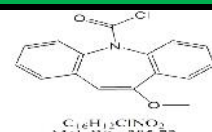
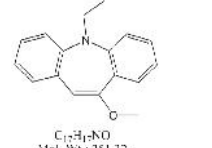
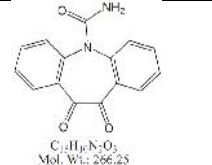
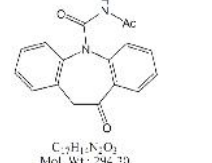
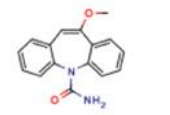
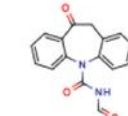
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Olanzapine Impurity 1	2-[(2-Aminophenyl)amino]-5-methyl-3-thiophenecarbonitrile; Olanzapine Impurity ; 2-(2-Aminoanilino)-5-methylthiophene-3-carbonitrile; 2-(2-Aminoanilino)-5-methylthiophene-3-carbonitrile;	873895-41-1	C ₁₂ H ₁₁ N ₃ S	229.3	
Olanzapine Amine Impurity	4-Amino-2-methyl-10H-thieno[2,3-b][1,5]benzodiazepine HCl ;	138564-60-0	C ₁₂ H ₁₂ ClN ₃ S	265.76	 C ₁₂ H ₁₂ ClN ₃ S Mol. Wt.: 265.76
OLMESARTAN					
Olmesartan EP Impurity A	Olmesartan Acid ; 4-(2-Hydroxypropan-2-yl)-2-propyl-1-((4-[2-(2H-1,2,3,4-tetrazol-5-yl)phenyl]phenyl)methyl)-1H-imidazole-5-carboxylic acid ;	144689-24-7	C ₂₄ H ₂₆ N ₆ O ₃	446.5	 C ₂₄ H ₂₆ N ₆ O ₃ Mol. Wt.: 446.5
Olmesartan EP Impurity B	Olmesartan USP RC A ; Olmesartan gamma-Lactone ; Olmesartan Lactone ; 3,6-Dihydro-6,6-dimethyl-2-propyl-3-[[2'-(2H-tetrazol-5-yl)[1,1'-biphenyl]-4-yl]methyl]-4H-furo[3,4-d]imidazol-4-one ;	849206-43-5	C ₂₄ H ₂₄ N ₆ O ₂	428.49	 C ₂₄ H ₂₄ N ₆ O ₂ Mol. Wt.: 428.49
Olmesartan EP Impurity C	Dehydro Olmesartan Medoxomil ; Anhydro Olmesartan Medoxomil ; Olmesartan Medoxomil Olefinic Impurity (USP) ; Olmesartan Medoxomil Methylvinyl Impurity ; 5-Methyl-2-oxo-1,3-dioxolen-4-yl methyl 4-(prop-1-en-2-yl)-2-propyl-1-[[2-(1H-tetrazol-5-yl) biphenyl-4-yl] methyl]-1Himidazole-5-carboxylate ;	879562-26-2	C ₂₉ H ₂₈ N ₆ O ₅	540.57	 C ₂₉ H ₂₈ N ₆ O ₅ Mol. Wt.: 540.57

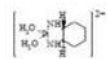
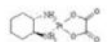
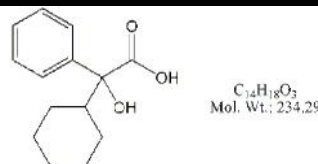
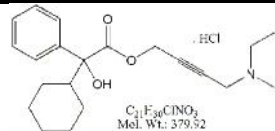
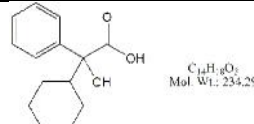
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Olmesartan EP Impurity D	Olmesartan EP Impurity D ; N2-Trityl Olmesartan Medoxomil ; 4-(1-Hydroxy-1-methylethyl)-2-propyl-1-[[2'-(2-(triphenylmethyl)-2H-tetrazol-5-yl)[1,1'-biphenyl]-4-yl]methyl]-1H-imidazole-5-carboxylic acid (5-methyl-2-oxo-1,3-dioxol-4-yl)methyl ester	1020157-01-0	C48H44N6O6	800.90	 C ₄₈ H ₄₄ N ₆ O ₆ Mol. Wt.: 800.90
Olmesartan Medoxomil Methyl Ether	Olmesartan Medoxomil O-Methyl Analog ; 4-(1-Methoxy-1-methylethyl)-2-propyl-1-[[2'-(2H-tetrazol-5-yl)[1,1'-biphenyl]-4-yl]methyl]-1H-imidazole-5-carboxylic acid (5-methyl-2-oxo-1,3-dioxol-4-yl)methyl ester ;	896419-17-3	C30H32N6O6	572.61	 C ₃₀ H ₃₂ N ₆ O ₆ Mol. Wt.: 572.61
Olmesartan Ethyl Ester	4-(2-Hydroxypropan-2-yl)-2-propyl-1-((4-[2-(2H-1,2,3,4-tetrazol-5-yl)phenyl]phenyl)methyl)-1H-imidazole-5-carboxylic acid ethyl ester.	144689-23-6	C26H30N6O3	474.55	
OMEPRAZOLE					
Omeprazole Impurity E	2-[(RS)-[(3,5-dimethylpyridin-2-yl)methyl]sulphinyl]-5-methoxy-1 H-benzimidazole.	NA	NA	NA	
ONDANSETRON					
Ondansetron EP Impurity A	(3RS)-3-[(Dimethylamino)methyl]-9-methyl-1,2,3,9-tetrahydro-4H-carbazol-4-one ;	153139-56-1	C16H20N2O	256.34	 C ₁₆ H ₂₀ N ₂ O Mol. Wt.: 256.34
Ondansetron EP Impurity C	9-Methyl-1,2,3,9-tetrahydro-4H-carbazol-4-one ;	27387-31-1	C13H13NO	199.25	 C ₁₃ H ₁₃ NO Mol. Wt.: 199.25

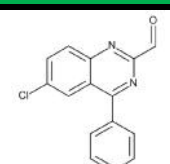
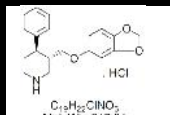
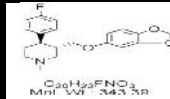
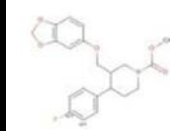
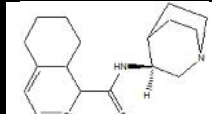
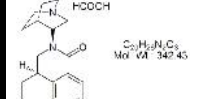
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Ondansetron EP Impurity D	9-Methyl-3-methylene-1,2,3,9-tetrahydro-4H-carbazol-4-one ;	99614-64-9	C ₁₄ H ₁₃ NO	211.26	 C ₁₄ H ₁₃ NO Mol. Wt.: 211.26
Ondansetron EP Impurity E	1H-Imidazole ;	288-32-4	C ₃ H ₄ N ₂	68.08	 C ₃ H ₄ N ₂ Mol. Wt.: 68.08
Ondansetron EP Impurity F	2-Methyl-1H-imidazole ;	693-98-1	C ₄ H ₆ N ₂	82.1	 C ₄ H ₆ N ₂ Mol. Wt.: 82.1
Ondansetron EP Impurity G	(3RS)-3-[(1H-Imidazol-1-yl)methyl]-9-Methyl-1,2,3,9-tetrahydro-4H-carbazol-4-one ;	99614-03-6	C ₁₇ H ₁₇ N ₃ O	279.34	 C ₁₇ H ₁₇ N ₃ O Mol. Wt.: 279.34
Ondansetron EP Impurity H	(3RS)-3-[(2-Methyl-1H-imidazol-1-yl)methyl]-1,2,3,9-tetrahydro-4H-carbazol-4-one ;	9614-14-9	C ₁₇ H ₁₇ N ₃	279.34	 C ₁₇ H ₁₇ N ₃ Mol. Wt.: 279.34
ORLISTAT					
Orlistat RC B	Orlistat Related Compound B;1,2-Hydrazinedicarboxylic Acid Bis(1-methylethyl) Ester;1,2-Hydrazinethyl) Ester;diisopropyl hydrazine-1,2rbamic Acid Diisopropyl Ester;	19740-72-8	C ₈ H ₁₆ N ₂ O ₄	204.22	

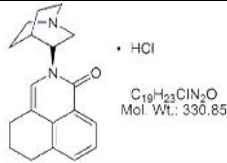
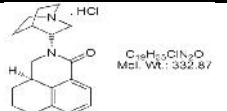
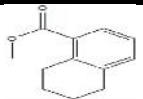
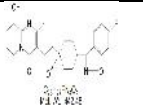
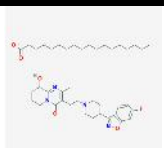

Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Orlistat USP RC D	N-Formyl-L-leucine (3S,4R,6S)-tetrahydro-3-hexyl-2-oxo-6-undecyl-2H-pyran-4-yl ester ;	130793-27-0	C ₂₉ H ₅₃ NO ₅	495.73	 C ₂₉ H ₅₃ NO ₅ Mol. Wt.: 495.73
OSELTAMIVIR					
Oseltamivir EP Impurity A	(3R,4R,5S)-5-Acetamido-4-amino-3-(1-ethylpropoxy)cyclohex-1-ene-1-carboxylic acid	1364932-19-3	C ₁₄ H ₂₄ N ₂ O ₄	284.4	
Oseltamivir Impurity B	Oseltamivir Related Compound B;4-Acetylamino-3-hydroxybenzoic Acid Ethyl Ester;Oseltamivir Phosphate BP Impurity C;Oseltamivir Phenol;Ethyl 4-Acetylamido-3-hydroxybenzoate; Oseltamivir Phosphate BP Impurity C	1346604-18-9	C ₁₁ N ₁₃ NO ₄	223.23	
Oseltamivir EP Impurity C	(3R,4R,5S)-4-(Acetylamino)-5-amino-3-(1-ethylpropoxy)-1-cyclohexene-1-carboxylic Acid; Oseltamivir Carboxylic Acid; GS 4071; Ro 64-0802; Oseltamivir Carboxylate; Oseltamivir EP Impurity C;	187227-45-8	C ₁₄ H ₂₄ N ₂ O ₄	284.4	
Oseltamivir EP Impurity D	Ethyl 4-Acetylamido-3-hydroxybenzoate; Oseltamivir Phosphate BP Impurity D; Oseltamivir EP Impurity D;	1346604-18-9	NA	223.23	
Oseltamivir EP Impurity E	Oseltamivir EP Impurity E;	208720-71-2	C ₁₅ H ₂₆ N ₂ O ₄	298.38	 C ₁₅ H ₂₆ N ₂ O ₄ Mol. Wt.: 298.38

Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
OXYMETAZOLINE					
Oxymetazoline EP Impurity A	Oxymetazoline BP Impurity A ; Oxymetazoline USP RC A ; N-(2-Aminoethyl)-2-[4-(1,1-dimethylethyl)-3-hydroxy-2,6-dimethylphenyl]acetamide ;	1391053-50-1	C ₁₆ H ₂₆ N ₂ O ₂	278.39	 C ₁₆ H ₂₆ N ₂ O ₂ Mol. Wt.: 278.39
Oxymetazoline EP Impurity B	Oxymetazoline BP Impurity B ; Xylometazoline ; 2-[[4-(1,1-Dimethylethyl)-2,6-dimethylphenyl]methyl]-4,5-dihydro-1H-imidazole ;	NA	C ₁₆ H ₂₄ N ₂	244.38	 C ₁₆ H ₂₄ N ₂ Mol. Wt.: 244.38
Oxymetazoline EP Impurity C	Oxymetazoline BP Impurity C ; 2-[4-(1,1-Dimethylethyl)-3-hydroxy-2,6-dimethylphenyl]acetamide ;	55699-13-3	C ₁₄ H ₂₁ NO ₂	235.32	 C ₁₄ H ₂₁ NO ₂ Mol. Wt.: 235.32
Oxymetazoline EP Impurity D	Oxymetazoline BP Impurity D ; 2-[4-(1,1-Dimethylethyl)-3-hydroxy-2,6-dimethylphenyl]acetic acid	55699-12-2	C ₁₄ H ₂₀ O ₃	236.31	 C ₁₄ H ₂₀ O ₃ Mol. Wt.: 236.31
Oxymetazoline EP Impurity E	Oxymetazoline BP Impurity E ; 2-[4-(1,1-Dimethylethyl)-3-hydroxy-2,6-dimethylphenyl]acetonitrile ;	55699-10-0	C ₁₄ H ₁₉ NO	217.31	 C ₁₄ H ₁₉ NO Mol. Wt.: 217.31
OXCARBAZEPINE					
Oxcarbazepine EP Impurity C	5,11-Dihydro-10H-dibenzo[b,f]azepin-10-one ;	21737-58-6	C ₁₄ H ₁₁ NO	209.24	 C ₁₄ H ₁₁ NO Mol. Wt.: 209.24

Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Oxcarbazepine EP Impurity F	10-Methoxy-5H-dibenzo[b,f]azepine-5-carbonylchloride ;	28721-08-6	C ₁₆ H ₁₂ ClNO ₂	285.72	
Oxcarbazepine EP Impurity G	5-Ethyl-10-methoxy-5H-dibenzo[b,f]azepine ;	15882-79-8	C ₁₇ H ₁₇ NO	251.32	
Oxcarbazepine EP Impurity I	11-Keto Oxcarbazepine ; 10,11-Dioxo-10,11-dihydro-5H-dibenzo[b,f]azepine-5-carboxamide ;	537693-29-1	C ₁₅ H ₁₀ N ₂ O ₃	266.25	
Oxcarbazepine EP Impurity L	Oxcarbazepine USP RC B ; N-Ethanone Oxcarbazepine ; N-Acetyl-10-oxo-10,11-dihydro-5H-dibenzo[b,f]azepine-5-carboxamide ;	NA	C ₁₇ H ₁₄ N ₂ O ₃	294.30	
10-Methoxy Carbamazepine	Oxcarbazepine IMpurity C;10-Methoxy-5H-dibenz[b,f]azepineine; 28721-09-7; 10-methoxy-5H-dibenzo[b,f]azepineMethoxy Carbamazepine; 10-Methoxy-5H-dibenz[b,f]azepine-5-carboxamide;	28721-09-7	C ₁₆ H ₁₄ N ₂ O ₂	266.29	
N-Formyl Oxcarbazepine	Oxcarbazepine USP relat-dihydro-5H-dibenzo[b,f]azepine-5-carboxamide.	1346601-76-0	C ₁₆ H ₁₂ N ₂ O ₃	280.28	









Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
OXALIPLATIN					
Oxaliplatin EP Impurity B	(SP-4-2)-Diaqua[(1R,2R)-cyclohexane-1,2-diamine-?N?N?]platinum.	NA	C6H18N2O2Pt	345.30	
Oxaliplatin EP Impurity D	NA	NA	C8H14N2O4Pt	397.30	
OXYBUTYNIN					
Oxybutynin USP RC A	(RS)-2-Cyclohexyl-2-hydroxy-2-phenylacetic acid ; Phenylcyclohexylglycolic acid ;	4335-77-7	C14H18O3	234.29	
Oxybutynin EP Impurity C	Oxybutynin USP RC C ; 4-(Ethylmethylamino)but-2-ynyl (RS)-2-cyclohexyl-2-hydroxy-2-phenylacetate HCl ; Methylethyl Analogue of Oxybutynin HCl ;	NA	C21H30ClNO3	379.92	
Oxybutynin Impurity D	(RS)-2-Cyclohexyl-2-hydroxy-2-phenylacetic acid ; Phenylcyclohexylglycolic acid ;	4335-77-7	C14H18O3	234.29	


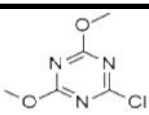
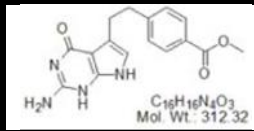
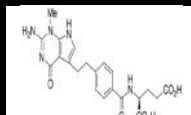
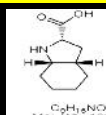
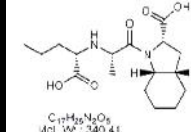
	Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
	Oxazepam Related C	6-Chloro-4-phenylquinazoline-2-carbaldehyde, 6-Chloro-4-phenylquinazoline-2-carboxaldehyde	5958-05-4	C ₁₅ H ₉ ClN ₂ O	268.70	
PAROXETINE						
P	Paroxetine Impurity A	(3S,4R)-3-[(1,3-Benzodioxol-5-yloxy)methyl]-4-phenylpiperidine HCl ;	324024-00-2 (base)	C ₁₉ H ₂₁ NO ₃	311.37	 C ₁₉ H ₂₁ ClNO ₃ Mol. Wt.: 347.54
	Paroxetine USP RC F	(3S,4R)-N-Methyl Paroxetine ; (3S,4R)-trans-(-)-1-Methyl-3-[1,3-benzodioxol-5-yloxy)methyl]-4-(fluorophenyl) piperidine ;	110429-36-2	C ₂₀ H ₂₂ FNO ₃	343.39	 C ₂₀ H ₂₁ FNO ₃ Mol. Wt.: 343.39
		1-Piperidinecarboxylic Acid,3-[(1,3-Benzodioxol-5-Yloxy)Methyl]-4-(4-Fluorophenyl)-, Methyl Ester	887140-77-4	C ₂₁ H ₂₂ FNO ₅	387.15	
PALONOSETRON						
	Palonosetron Impurity A	N-[(S)-1-Azabicyclo[2.2.2]oct-3-yl]- 5,6,7,8-tetrahydro-1-naphthylenecarboxamide	135729-78-1	C ₂₇ H ₃₇ N ₃ O	284.4	
	Palonosetron Impurity B	(3aR,3S)-Palonosetron Formate Salt ; (3aR)-2-[(3S)-1-Azabicyclo[2.2.2]oct-3-yl]-2,3,3a,4,5,6-hexahydro-1H-benz[de]isoquinolin-1-one formate salt ;	135755-51-0 (HCl salt)	C ₂₀ H ₂₆ N ₂ O ₃	342.43	 C ₂₀ H ₂₆ N ₂ O ₃ Mol. Wt.: 342.45

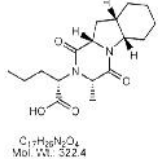
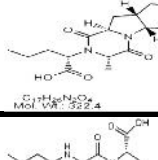
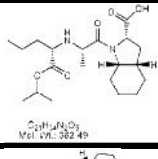
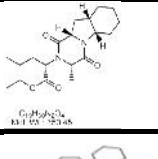
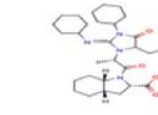

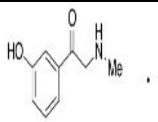
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Palonosetron USP RC E	(S)-2-(1-Azabicyclo[2.2.2]oct-3-yl)-2,4,5,6-tetrahydro-1H-benz[de]isoquinolin-1-one Monohydrochloride ; 2-[(3S)-Quinuclidin-3-yl]-2,4,5,6-tetrahydro-1H-benzo[de]isoquinolin-1-one hydrochloride ;	135729-55-4	C ₁₉ H ₂₃ ClN ₂ O	330.85	 • HCl C ₁₉ H ₂₃ ClN ₂ O Mol. Wt.: 330.85
Palonosetron Enantiomer	(3aR)-2-[(3R)-1-Azabicyclo[2.2.2]oct-3-yl]-2,3,3a,4,5,6-hexahydro-1H-benz[de]isoquinolin-1-one HCl ;	135729-75-8	C ₁₉ H ₂₅ ClN ₂ O	332.87	 • HCl C ₁₉ H ₂₅ ClN ₂ O Mol. Wt.: 332.87
Palonosetron Methyl Ester	Methyl 5,6,7,8-tetrahydronaphthalene-1-carboxylate	66193-59-7	C ₁₂ H ₁₄ O ₂	190.24	
PALIPERIDONE					
Paliperidone N-Oxide	Paliperidone USP Related Compound D ; Paliperidone N-Oxide ;3-[2-[4-(6-Fluoro-1,2-benzisoxazol-3-yl) piperidin-1-yl]ethyl]-9-hydroxy-2-methyl-6,7,8,9-tetrahydro-4H-pyrido[1,2-a]pyrimidin-4-one N-oxide ;	761460-08-6	C ₂₃ H ₂₇ FN ₄ O ₄	442.48	
Paliperidone Stearate	3-[2-[4-(6-fluoro-1,2-benzoxazol-3-yl)piperidin-1-yl]ethyl]-9-hydroxy-2-methyl-6,7,8,9-tetrahydropyrido[1,2-a]pyrimidin-4-one;octadecanoate;	1172995-13-9	C ₄₁ H ₆₂ FN ₄ O ₅	709.96	
Paliperidone Myristate	3-[2-[4-(6-fluoro-1,2-benzoxazol-3-yl)piperidin-1-yl]ethyl]-9-hydroxy-2-methyl-6,7,8,9-tetrahydropyrido[1,2-a]pyrimidin-4-one;tetradecanoate;	1172995-11-7	C ₃₇ H ₅₄ FN ₄ O ₅	653.86	

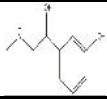

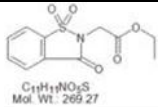
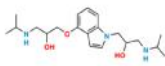
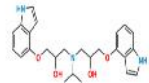




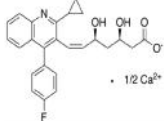
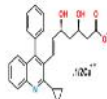
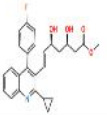
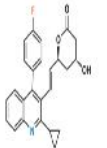
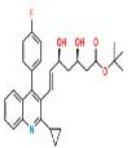
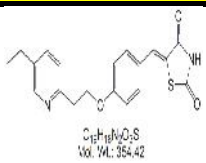
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Paliperidone 9-Keto Impurity	Paliperidone 9-Keto Impurity ; 9-Keto Paliperidone ; 9-Keto Risperidone ; 3-[2-[4-(6-Fluoro-1,2-benzisoxazol-3-yl)-1-piperidinyl]ethyl]-7,8-dihydro-2-methyl-4H-pyrido[1,2-a]pyrimidine-4,9(6H)-dione ;	1189516-65-1	C ₂₃ H ₂₅ FN ₄ O ₃	424.47	 C ₂₃ H ₂₅ FN ₄ O ₃ Mol. Wt.: 424.47
PACLITAXEL					
Paclitaxel EP Impurity H	10-O-Deacetyl-7-epi-paclitaxel ;	78454-17-8	C ₄₅ H ₄₉ NO ₁₃	811.87	 C ₄₅ H ₄₉ NO ₁₃ Mol. Wt.: 811.87
Paclitaxel Impurity G	10-O-Deacetylpaclitaxel ;	78432-77-6	C ₄₅ H ₄₉ NO ₁₃	811.87	 C ₄₅ H ₄₉ NO ₁₃ Mol. Wt.: 811.87
PARACETAMOL					
Paracetamol	NA	103-90-2	C ₈ H ₉ NO ₂	151.2	
Paracetamol EP Impurity A	NA	614-80-2	C ₈ H ₉ NO ₂	151.2	

	Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
	Paracetamol EP Impurity B	NA	1693-37-4	C ₉ H ₁₁ NO ₂	165.2	
	Paracetamol EP Impurity C	NA	3964-54-3	C ₈ H ₈ ClNO ₂	185.6	
	Paracetamol EP Impurity D	NA	103-84-4	C ₈ H ₉ NO	135.2	
	Paracetamol EP Impurity F	NA	100-02-7	C ₆ H ₅ NO ₃	139.1	
	Paracetamol EP Impurity G	NA	198712-64-0	C ₈ H ₉ NO ₂	151.2	
	Paracetamol EP Impurity H	NA	2623-33-8	C ₁₀ H ₁₁ NO ₃	193.2	
	Paracetamol EP Impurity I	NA	118-93-4	C ₈ H ₈ O ₂	136.2	
	Paracetamol EP Impurity J	NA	539-03-7	C ₈ H ₈ ClNO	169.6	

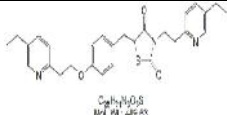
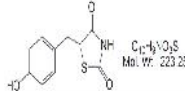
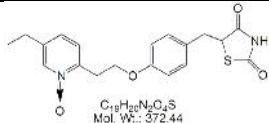
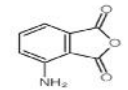

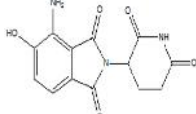
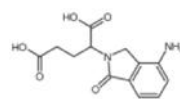
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Paracetamol EP Impurity K	NA	123-30-8	C ₆ H ₇ NO	109.1	
2-Chloro-4,6-Dimethoxy-1,3,5-Triazine	CDMT;NSC 46520;AKOS 89995;6-diMethoxy-1;5-triazine (CDMT);2-Chloro-4,6-dimethoxy;Chlorodimethoxytriazine;2-CHLORO-4,6-DIMETHOXY-TRIAZINE;2,4-Dimethoxy-6-chloro-s-triazine;4,6-DiMethoxy-2-chloro-s-triazine	3140-73-6	C ₅ H ₆ ClN ₃ O ₂	175.57	
PEMETREXED					
Pemetrexed Acid Methyl Ester	4-[2-(2-Amino-4,7-dihydro-4-oxo-1H-pyrrolo[2,3-d]pyrimidin-6-yl)ethyl] benzoic acid methyl ester ;	155405-80-4	C ₁₆ H ₁₆ N ₄ O ₃	312.32	 C ₁₆ H ₁₆ N ₄ O ₃ Mol. Wt.: 312.32
N-Methyl Pemetrexed	N-[4-[2-(2-Amino-4,7-dihydro-1-methyl-4-oxo-1H-pyrrolo[2,3-d]pyrimidin-5-yl)ethyl]benzoyl]-L-glutamic Acid; Pemetrexed EP Impurity A;	869791-42-4	C ₂₁ H ₂₃ N ₅ O ₆	441.44	
PERINDOPRIL					
Perindopril EP Impurity A	1 Perindopril EP Impurity A ; Ramipril Bicyclic Acid ; (2S,3aS,7aS)-Octahydro-1H-indole-2-carboxylic acid ;	80875-98-5	C ₉ H ₁₅ N ₂ O ₂	169.22	 C ₉ H ₁₅ N ₂ O ₂ Mol. Wt.: 169.22
Perindopril EP Impurity B	Perindoprilat ; Perindopril Diacid ; (2S,3aS,7aS)-1-[(2S)-2-[[[(1S)-1-Carboxybutyl]amino]propanoyl]octahydro-1H-indole-2-carboxylic acid ;	95153-31-4	C ₁₇ H ₂₈ N ₂ O ₅	340.41	 C ₁₇ H ₂₈ N ₂ O ₅ Mol. Wt.: 340.41

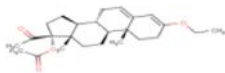
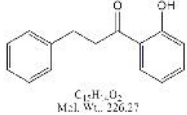
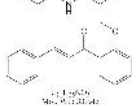
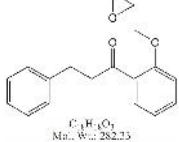
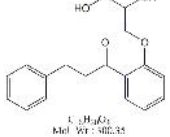
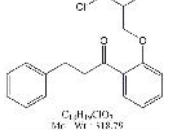
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Perindopril EP Impurity C	Perindoprilat Lactam A ; Perindopril (10aS)-Dione Acid ; (2S)-2-[(3S,5aS,9aS,10aS)-3-Methyl-1,4-dioxodecahydropyrazino[1,2-a]indol-2(1H)-yl]pentanoic acid ;	129970-99-6	C ₁₇ H ₂₆ N ₂ O ₄	322.4	 C ₁₇ H ₂₆ N ₂ O ₄ Mol. Wt.: 322.4
Perindopril EP Impurity D	Perindoprilat Lactam B ; Perindopril (10aR)-Dione Acid ; (2S)-2-[(3S,5aS,9aS,10aR)-3-Methyl-1,4-dioxodecahydropyrazino[1,2-a]indol-2(1H)-yl]pentanoic acid ;	130061-28-8	C ₁₇ H ₂₆ N ₂ O ₄	322.4	 C ₁₇ H ₂₆ N ₂ O ₄ Mol. Wt.: 322.4
Perindopril EP Impurity E	Perindopril Isopropyl Ester ; (2S,3aS,7aS)-1-[(2S)-2-[[[(1S)-1-[(1-Methylethoxy)carbonyl]butyl]amino]propanoyl]octahydro-1H-indole-2-carboxylic acid ;	1356837-89-2	C ₂₀ H ₃₄ N ₂ O ₅	382.49	 C ₂₀ H ₃₄ N ₂ O ₅ Mol. Wt.: 382.49
Perindopril EP Impurity F	Perindopril Diketopiperazine ; Perindopril (10aS)-Dione ; Ethyl (2S)-2-[(3S,5aS,9aS,10aS)-3-methyl-1,4-dioxodecahydropyrazino[1,2-a]indol-2(1H)-yl]pentanoate ;	129970-98-5	C ₁₉ H ₃₀ N ₂ O ₄	350.45	 C ₁₉ H ₃₀ N ₂ O ₄ Mol. Wt.: 350.45
Perindopril EP Impurity H	(2S,3aS,7aS)-1-[(2S)-2-[(5RS)-3-cyclohexyl-2(cyclohexylimino)-4-oxo-5-propylimidazolidin-1-yl]propanoyl]octahydro-1H-indole-2-carboxylic acid.	353777-64-7	C ₃₀ H ₄₈ N ₄ O ₄	528.73	
Perindopril EP Impurity K	Perindopril EP Impurity K ; Perindopril USP Related Compound K ; (3S,5aS,9aS,10aS)-3-Methyldecahydropyrazino[1,2-a]indole-1,4-dione ;	NA	C ₁₂ H ₁₈ N ₂ O ₂	222.28	 C ₁₂ H ₁₈ N ₂ O ₂ Mol. Wt.: 222.28
PHENYLEPHRINE					
Phenylephrine EP Impurity C	Phenylephrine Hydrochloride;1-(3-Hydroxyphenyl)-2-(methylamino)ethanone Hydrochloride; 3'-Hydroxy-2-methylaminoacetophenone Hydrochloride; Phenylephrine Imp. C (EP) Hydrochloride;	94240-17-2	C ₉ H ₁₂ ClNO ₂	201.65	 C ₉ H ₁₂ ClNO ₂

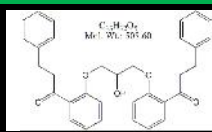
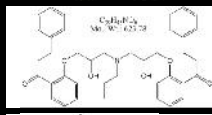
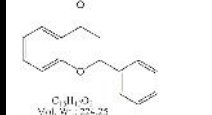
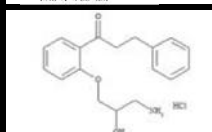
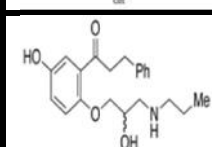
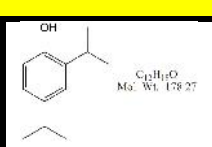
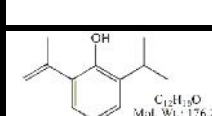
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Phenylephrine Impurity E	2-[Benzyl(Methyl)amino]-1-(3-Hydroxyphenyl)ethanone Hydrochloride.	NA	C ₉ H ₁₃ NO ₂	167.21	
Phenytoin RC-A	2-amino-2,2-diphenylacetic acid	3060-50-2	C ₁₄ H ₁₃ NO ₂	227.26	
PIROXICAM					
Piroxicam Impurity E	Ethyl (1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)acetate ;	NA	C ₁₁ H ₁₁ NO ₅ S	269.27	 C ₁₁ H ₁₁ NO ₅ S Mol. Wt. 269.27
PINDOLOL					
Pindolol Impurity B	1-[4-[2-Hydroxy-3-[(1-methyl-ethyl)amino]propoxy]-1H-indol-1-yl]-3-[(1-methylethyl)amino]propan-2-ol	130115-63-8	C ₂₀ H ₃₃ N ₃ O ₃	363.5	
Pindolol Impurity C	1,1'-[(1-Methylethyl)imino]bis[3-(1H-indol-4-yloxy)propan-2-ol]	130115-65-0	C ₂₅ H ₃₁ N ₃ O ₄	437.54	
Pindolol Impurity D	NA	61212-32-6	C ₁₁ H ₁₃ NO ₃	207.23	
Pindolol Impurity F	NA	130115-66-1	C ₁₁ H ₁₂ ClNO ₂	225.67	
PITAVASTATIN					

Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Pitavastatin Z-Isomer	(Z)-Pitavastatin Calcium Salt;	1159588-21-2	C ₂₅ H ₂₃ FNO ₄	420.54	
Pitavastatin Desfluoro Impurity	(3R,5S,E)-7-(2-cyclopropyl-4-phenylquinolin-3-yl)-3,5-dihydroxyhept-6-enoate	847849-67-6	C ₂₅ H ₂₄ NO ₄	403.47	
Pitavastatin Methyl Ester	methyl (3R,5S,E)-7-(2-cyclopropyl-4-(4-fluorophenyl)quinolin-3-yl)-3,5-dihydroxyhept-6-enoate	849811-78-5	C ₂₆ H ₂₆ FNO ₄	435.5	
Pitavastatin Lactone	(4R,6S)-6-((E)-2-(2-cyclopropyl-4-(4-fluorophenyl)quinolin-3-yl)vinyl)-4-hydroxytetrahydro-2H-pyran-2-one;(4R,6S,E)-6-[2-[2-Cyclopropyl-4-(4-fluorophenyl) quinolin-3-yl] vinyl] tetrahydro-4-hydroxypyran-2-one	141750-63-2	C ₂₅ H ₂₂ FNO ₃	403.45	
Pitavastatin T-Butyl Ester	(3R,5S,6E)-7-[2-Cyclopropyl-4-(4-fluorophenyl) quinolin-3-yl]-3,5-dihydroxyhept-6-enoic acid t-butyl ester	586966-54-3	C ₂₉ H ₃₂ FNO ₄	477.57	
PIOGLITAZONE					
Pioglitazone EP Impurity B	Didehydro Pioglitazone Impurity ; 5-{4-[2-(5-Ethyl-2-pyridinyl) ethoxy] benzylidene}-2,4-thiazolidinedione.	144809-28-9 ; CAS # 627502-58-3 ;	C ₁₉ H ₁₈ N ₂ O ₃ S	354.42	 C ₁₉ H ₁₈ N ₂ O ₃ S M.Wt: 354.42



Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Pioglitazone EP Impurity C	N-Alkyl Pioglitazone ; 5-[[4-[2-(5-Ethyl-2-pyridinyl)ethoxy]phenyl]methyl]-N-[2-(5-ethylpyridin-2-yl)ethyl]-2,4-thiazolidinedione	952188-00-0	C28H31N3O3S	489.63	 C ₂₈ H ₃₁ N ₃ O ₃ S Mol. Wt. 489.63
Pioglitazone Metabolite	5-(4-Hydroxybenzyl)-1,3-thiazolidine-2,4-dione ;	74772-78-4	C10H9NO3S	223.25	 C ₁₀ H ₉ NO ₃ S Mol. Wt. 223.25
Pioglitazone N-Oxide	5-[[4-[2-(5-Ethyl-2-pyridinyl)ethoxy]phenyl]methyl]-2,4-thiazolidinedione N-oxide ;	145350-09-0	C19H20N2O4S	372.44	 C ₁₉ H ₂₀ N ₂ O ₄ S Mol. Wt. 372.44
POMALIDOMIDE					
Pomalidomide Impurity 1	3-Aminophthalic Anhydride; 4-Amino-1,3-isobenzofurandione; NSC 403250	17395-99-2	C8H5NO3	163.13	 NH ₂
Pomalidomide Impurity-2	2-(4-amino-1,3-dioxisoindolin-2-yl)-4-carbamoylbutanoic acid	NA	C13H13N3O5	291.26	 NH ₂
Pomalidomide Impurity 3	4-amino-5-hydroxy-2-(2,6-dioxopiperidin-3-yl)isoindoline-1,3-dione	NA	C13H11N3O5	289.24	 NH ₂
Pomalidomide Impurity-4	2-(4-Amino-1,3-dihydro-1-oxo-2H-isoindol-2-yl)pentanedioic acid	295357-66-3	C13H14N2O5	278.26	 NH ₂
PROGESTERONE					

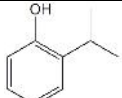
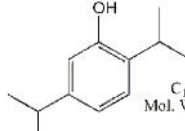
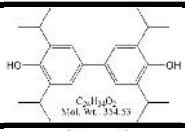
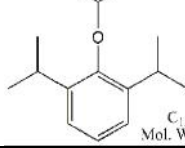
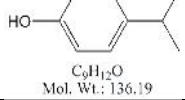
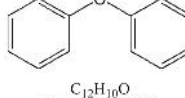
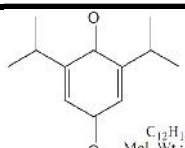
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Progesterone Impurity 1	3-Ethoxy-17-hydroxy-pregna-3,5-dien-20-one Acetate	16319-93-0	C ₂₅ H ₃₆ O ₄	400.55	
PROPAFENONE					
Propafenone EP Impurity A	1-(2-Hydroxyphenyl)-3-phenylpropan-1-one.	3516-95-8	C ₁₅ H ₁₄ O ₂	226.27	 C ₁₅ H ₁₄ O ₂ Mol. Wt.: 226.27
Propafenone EP Impurity B	(2E)-1-[2-[(2RS)-2-Hydroxy-3-(propylamino)propoxy]phenyl]-3-phenylprop-2-en-1-one ;	88308-22-9 (Z/E base) ; 1331636-87-	C ₂₁ H ₂₅ NO ₃	339.43	 C ₂₁ H ₂₅ NO ₃ Mol. Wt.: 339.43
Propafenone EP Impurity C	1-[2-[[[(2RS)-Oxiranyl]methoxy]phenyl]-3-phenylpropan-1-one ;	22525-95-7	C ₁₈ H ₁₈ O ₃	282.33	 C ₁₈ H ₁₈ O ₃ Mol. Wt.: 282.33
Propafenone EP Impurity D	1-[2-[(2RS)-2,3-Dihydroxypropoxy]phenyl]-3-phenylpropan-1-one ;	91401-73-9	C ₁₈ H ₂₀ O ₄	300.35	 C ₁₈ H ₂₀ O ₄ Mol. Wt.: 300.35
Propafenone EP Impurity E	1-[2-[(2RS)-3-Chloro-2hydroxypropoxy]phenyl]-3-phenylpropan-1-one ;	165279-79-8	C ₁₈ H ₁₉ ClO ₃	318.79	 C ₁₈ H ₁₉ ClO ₃ Mol. Wt.: 318.79

Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Propafenone EP Impurity F	1,1?-[2-Hydroxypropane-1,3-diylbis(oxy-2,1-phenylene)]bis(3-phenylpropan-1-one) ;	1329643-40-4	C33H32O5	C33H32O5	 C ₃₃ H ₃₂ O ₅ Mol. Wt.: 505.60
Propafenone EP Impurity G	1,1?-[Propyliminobis[(2-hydroxypropane-3,1-diyl)oxy-2,1-phenylene]]bis(3-phenylpropan-1-one) ;	1346603-80-2 ;	C39H45NO6	623.78	 C ₃₉ H ₄₅ NO ₆ Mol. Wt.: 623.78
Propafenone EP Impurity H	(2RS)-2-Phenyl-2,3-dihydro-4H-1-benzopyran-4-one ;	487-26-3	C15H12O2	224.25	 C ₁₅ H ₁₂ O ₂ Mol. Wt.: 224.25
N-Despropyl Propafenone HCl	NA	1188263-52-6	C18H21NO3. HCl	299.37 36.46	
5-Hydroxy Propafenone Hydrochloride	1-[5-Hydroxy-2-[2-hydroxy-3-(propylamino)propoxy]phenyl]-3-phenyl-1-propanone Hydrochloride; GPV 129;	86384-10-3	C21H28ClNO4	393.9	 C ₂₁ H ₂₈ ClNO ₄
PROPOFOL					
Propofol EP Impurity A	2,4-Bis(1-methylethyl)phenol	2934-05-06	C12H18O	178.27	 C ₁₂ H ₁₈ O Mol. Wt.: 178.27
Propofol EP Impurity B	2-(1-Methylethenyl)-6-(1-methylethyl)phenol ;	74926-89-9	C12H16O	176.25	 C ₁₂ H ₁₆ O Mol. Wt.: 176.25

Impurity Catalogue

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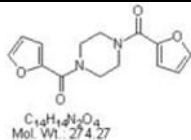
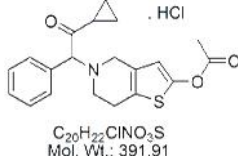

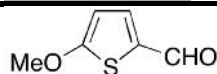
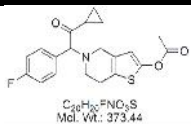
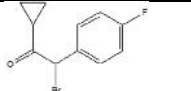
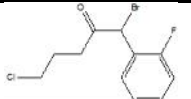
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Propofol EP Impurity C	2-(1-Methylethyl)phenol ;	88-69-7	C ₉ H ₁₂ O	136.19	 C ₉ H ₁₂ O Mol. Wt.: 136.19
Propofol EP Impurity D	Propofol BP Impurity D ; 2,5-Bis(1-methylethyl)phenol ;	35946-91-9	C ₁₂ H ₁₈ O	178.27	 C ₁₂ H ₁₈ O Mol. Wt.: 178.27
Propofol EP Impurity E	Propofol BP Impurity E ; Propofol USP RC A ; 3,3',5,5'-Tetrakis(1-methylethyl)biphenyl-4,4'-diol ; 3,3'-5,5'-Tetraisopropyldiphenol ;	2416-95-7	C ₂₄ H ₃₄ O ₂	354.53	 C ₂₄ H ₃₄ O ₂ Mol. Wt.: 354.53
Propofol EP Impurity G	Propofol BP Impurity G ; Propofol USP RC C ; 2-(1-Methylethoxy)-1,3-bis(1-methylethyl)benzene ; 2,6-Diisopropylphenyl isopropyl ether ;	141214-18-8	C ₁₅ H ₂₄ O	220.35	 C ₁₅ H ₂₄ O Mol. Wt.: 220.35
Propofol EP Impurity H	Propofol BP Impurity H ; 4-(1-Methylethyl)phenol ;	99-89-8	C ₉ H ₁₂ O	136.19	 C ₉ H ₁₂ O Mol. Wt.: 136.19
Propofol EP Impurity I	Propofol BP Impurity I ; Oxydibenzene ;	101-84-8	C ₁₂ H ₁₀ O	170.21	 C ₁₂ H ₁₀ O Mol. Wt.: 170.21
Propofol EP Impurity J	2,6-Bis(1-methylethyl)benzene-1,4-dione ; 2,6-Diisopropylbenzoquinone ;	1988-11-0	C ₁₂ H ₁₆ O ₂	192.25	 C ₁₂ H ₁₆ O ₂ Mol. Wt.: 192.25

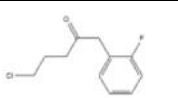
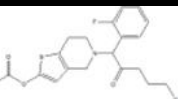
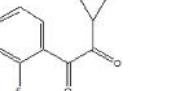
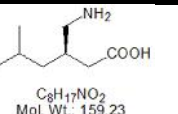
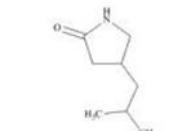
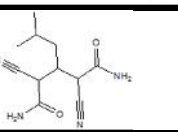
Impurity Catalogue

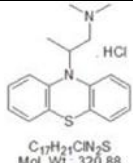
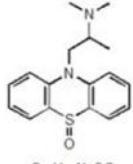
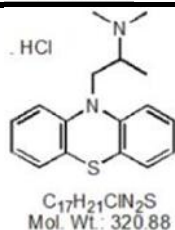
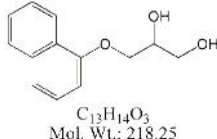
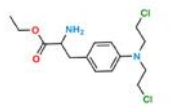
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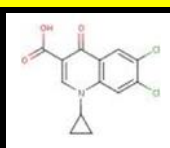
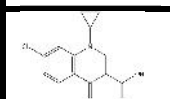
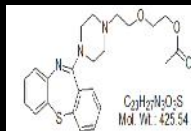
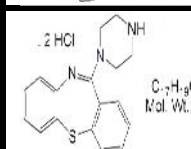
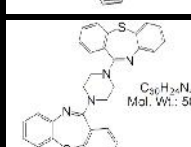
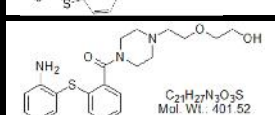


Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Propofol EP Impurity K	Propofol BP Impurity K ; 1-(1-Methylethoxy)-2-(1-methylethyl)benzene ;	14366-59-7	C ₁₂ H ₁₈ O	178.27	
Propofol EP Impurity L	Propofol BP Impurity L ; 2,2-Dimethyl-4-(1-methylethyl)-1,3-benzodioxole ;	201166-22-5	C ₁₂ H ₁₆ O ₂	192.25	
Propofol EP Impurity M	2,6-Diisopropyl-benzoic Acid; 2,6-Diisopropylbenzoic acid.	92035-95-5	C ₁₃ H ₁₈ O ₂	206.28	
Propofol EP Impurity N	Propofol BP Impurity N ; 4-Hydroxy-3,5-bis(1-methylethyl)benzoic acid ;	13423-73-9	C ₁₃ H ₁₈ O ₃	222.28	
Propofol EP Impurity O	Propofol BP Impurity O ; 2-(1-Methylethyl)-6 propylphenol ;	74663-48-2	C ₁₂ H ₁₈ O	178.27	
Propofol EP Impurity P	Propofol BP Impurity P ; 1-Methylethyl 4-hydroxy-3,5-bis(1-methylethyl)benzoate ;	NA	C ₁₆ H ₂₄ O ₃	264.36	
PRAZOSIN					
Prazosin Impurity-A	4-Amino-2-chloro-6,7-dimethoxyquinazoline	23680-84-4	C ₁₀ H ₁₀ ClN ₃ O ₂	239.66	

Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Prazosin Impurity-B	1,4-Bis(furan-2-ylcarbonyl)piperazine	31350-27-3	C ₁₄ H ₁₄ N ₂ O ₄	274.27	
PRASUGREL					
Prasugrel Desfluoro Hydrochloride	Prasugrel Desfluoro Hydrochloride ; Desfluoro Prasugrel Hydrochloride ; [5-[2-Cyclopropyl-1-phenyl-2-oxoethyl]-6,7-dihydro-4H-thieno[4,5-c]pyridin-2-yl] acetate hydrochloride ;	1391053-53-4	C ₂₀ H ₂₂ ClNO ₃ S	391.91	
Prasugrel HCl Desacetyloxy Impurity	Prasugrel HCl Desacetyloxy Impurity ; 2-Desacetoxy Prasugrel HCl ; 1-Cyclopropyl-2-(6,7-dihydrothieno[3,2-c]pyridin-5(4H)-yl)-2-(2-fluoro phenyl)ethanone HCl ;	201049-78-7 (base)	C ₁₈ H ₁₈ FNOS (base) ;C ₁₈ H ₁₉ ClFNOS (HCl sal)	315.41 (base) ;351.87	
Prasugrel Thiophene Impurity	5-Methoxy-2-thiophenecarboxaldehyde; 2-Formyl-5-methoxythiophene;	35087-46-8	C ₆ H ₆ O ₂ S	142.18	
Prasugrel Fluoro Isomer	[5-[2-Cyclopropyl-1-(4-fluorophenyl)-2-oxoethyl]-6,7-dihydro-4H-thieno[4,5-c]pyridin-2-yl]acetate ;	1391194-50-5	C ₂₀ H ₂₀ FNO ₃ S	373.44	
Prasugrel Fluoro CFBK	4-Fluoro-alpha-cyclopropylcarbonylbenzyl bromide	1359829-52-9	C ₁₁ H ₁₀ BrFO	257.1	
Prasugrel Impurity 1	1-Bromo-5-chloro-1-(2-fluorophenyl)pentan-2-one	1373350-58-3	C ₁₁ H ₁₁ BrClFO	293.56	

Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Prasugrel Impurity 2	5-Chloro-1-(2-fluorophenyl)pentan-2-one	1056459-35-8	C ₁₁ H ₁₂ ClFO	214.66	
Prasugrel Impurity 3	5-[5-Chlor-1-(2-fluorophenyl)-2-oxopentyl]4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-yl acetate	1056459-37-0	C ₂₀ H ₂₁ ClFNO ₃ S	409.9	
Prasugrel Impurity 4	1-Cyclopropyl-2-(2-fluorophenyl)ethane-1,2-dione	1391054-37-7	C ₁₁ H ₉ FO ₂	192.19	
PREGABALIN					
Pregabalin USP RC A	Pregabalin (R)-Isomer ; (R)-(-)-3-(Aminomethyl)-5-methylhexanoic acid ;	148553-51-9	C ₈ H ₁₇ NO ₂	159.23	 C ₈ H ₁₇ NO ₂ Mol. Wt.: 159.23
Pregabalin Lactam Impurity	Pregabalin USP Related Compound C ; Pregabalin Lactam Impurity ; 4-(2-Methylpropyl)-2-pyrrolidinone ; 4-Isobutyl-2-pyrrolidinone ;	61312-87-6	C ₈ H ₁₅ NO	141.21	
Pregabalin Impurity 1	2,4-Dicyano-3-isobutyl pentanediamide	185815-56-9	C ₁₁ H ₁₆ N ₂ O ₄	236.27	
PROMETHAZINE					

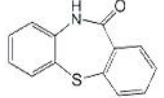
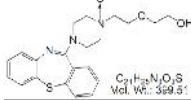
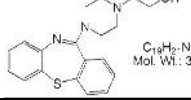
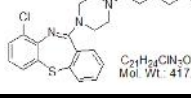
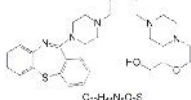
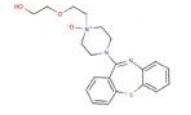
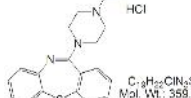
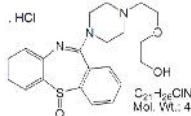
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Promethazine Impurity B	(2RS)-N,N-Dimethyl-2-(10H-phenothiazin-10-yl)propan-1-amine hydrochloride ;	5568-90-1	C ₁₇ H ₂₁ ClN ₂ S	320.88	 C ₁₇ H ₂₁ ClN ₂ S Mol. Wt.: 320.88
Promethazine EP Impurity D	(2RS)-N,N-Dimethyl-1-(10H-phenothiazin-10-yl)propan-2-amine S-oxide ;	7640-51-9	C ₁₇ H ₂₀ N ₂ OS	300.42	 C ₁₇ H ₂₀ N ₂ OS Mol. Wt.: 300.42
Promethazine HCl	(2RS)-N,N-Dimethyl-1-(10H-phenothiazin-10-yl)propan-2-amine hydrochloride ;	58-33-3	C ₁₇ H ₂₁ ClN ₂ S	320.88	 C ₁₇ H ₂₁ ClN ₂ S Mol. Wt.: 320.88
PROPRANOLOL					
Propranolol EP Impurity A	(2RS)-3-(Naphthalen-1-yloxy)propane-1,2-diol ; 3-(1-Naphthalenyloxy)-1,2-propanediol ;	36112-95-5	C ₁₃ H ₁₄ O ₃	218.25	 C ₁₃ H ₁₄ O ₃ Mol. Wt.: 218.25
Propranolol EP Impurity C	1,3-bis(Naphthalen-1-yloxy)propan-2-ol ; 1,3-Bis(1-Naphthoxy)-2-propanol ;	17216-10-3	C ₂₃ H ₂₀ O ₃	344.4	

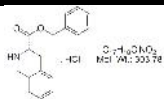
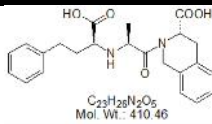
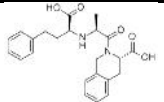
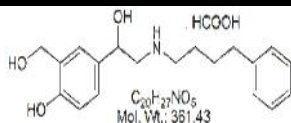
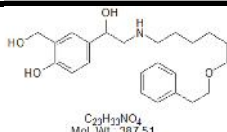
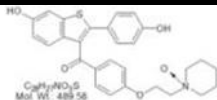
	Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Q ACID						
Q	Q Acid . (Chloro Analog)	3-Quinolinecarboxylic acid, 6,7-dichloro-1-cyclopropyl-1,4-dihydro-4-oxo	93107-31-4	C13H9Cl2NO3	298.12	
	Q.Acid (Des Fluoro Impurity)	7-Chloro-1-cyclopropyl-4-oxo-1,4-dihydroquinoline-3-carboxylic acid.	93110-13-5	C13H10ClNO3	263.676	
QUETIAPINE						
	Quetiapine EP Impurity A	Quetiapine Acetate ; 2-[2-(4-Dibenzo [b,f] [1,4]thiazepin-11-yl-1-piperazinyl)ethoxy]-ethyl acetate ;	844639-07-2	C23H27N3O3S	425.54	 C ₂₃ H ₂₇ N ₃ O ₃ S Mol. Wt.: 425.54
	Quetiapine EP Impurity B	Quetiapine DBTP Metabolite ; Quetiapine EP Impurity B ; Quetiapine USP Related Compound B ; Dibenzo[b,f][1,4]thiazepine-11-yl-piperazine dihydrochloride ; 11-Piperazin-1-yl-dibenzo[b,f][1,4]thiazepine Dihydrochloride ("DBTP") ;	111974-74-4	C17H19Cl2N3S	368.32	 · 2 HCl C ₁₇ H ₁₉ Cl ₂ N ₃ S Mol. Wt.: 368.32
	Quetiapine EP Impurity D	1,4-bis(Dibenzo[b,f][1,4]thiazepine-11-yl)piperazine ; 11,11'-(1,4-Piperazinediyl)-bis-dibenzo[b,f][1,4]thiazepine ;	945668-94-0	C30H24N4S2	504.67	 C ₃₀ H ₂₄ N ₄ S ₂ Mol. Wt.: 504.67
	Quetiapine EP Impurity F	(2-((2-Aminophenyl)thio)phenyl)(4-(2-(2-hydroxyethoxy)ethyl)piperazin-1-yl)methanone ;	848814-27-7	C21H27N3O3S	401.52	 C ₂₁ H ₂₇ N ₃ O ₃ S Mol. Wt.: 401.52

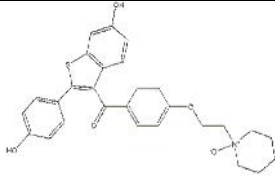
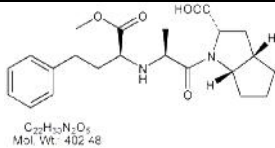
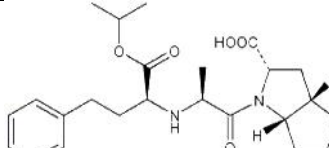
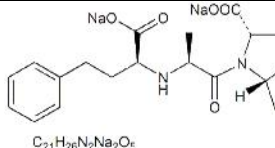
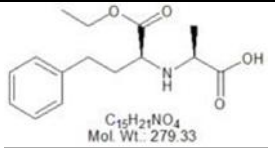
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Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Quetiapine EP Impurity G	Dibenzo[b,f][1,4]thiazepine-11(10-H)-one ;	3159-07-7	C ₁₃ H ₉ NOS	227.28	 C ₁₃ H ₉ NOS Mol. Wt.: 227.28
Quetiapine EP Impurity H	2-[2-(4-Dibenzo[b,f][1,4]thiazepin-11-yl-1-piperazinyl)ethoxy]ethanol N-oxide ;	1076199-40-0	C ₂₁ H ₂₅ N ₃ O ₃ S	399.51	 C ₂₁ H ₂₅ N ₃ O ₃ S Mol. Wt.: 399.51
Quetiapine EP Impurity I	Quetiapine Desethoxy Impurity (USP) ; Quetiapine Alcohol Impurity ; Quetiapine Ethanol Impurity ; 11-[4-(2-Hydroxyethyl)-1-piperazinyl]-dibenzo[b,f][1,4]thiazepine ;	329216-67-3	C ₁₉ H ₂₁ N ₃ OS	339.45	 C ₁₉ H ₂₁ N ₃ OS Mol. Wt.: 339.45
Quetiapine EP Impurity L	9-Chloro Quetiapine ; 2-(2-(4-(9-Chlorodibenzo[b,f][1,4]thiazepin-11-yl)piperazin-1-yl)ethoxy) ethanol ;	1371638-11-7	C ₂₁ H ₂₄ ClN ₃ O ₂ S	417.95	 C ₂₁ H ₂₄ ClN ₃ O ₂ S Mol. Wt.: 417.95
Quetiapine EP Impurity N	4-[2-[2-(4-Dibenzo [b,f] [1,4]thiazepin-11-yl-1-piperazinyl)ethoxy]ethyl]-1-[(2-hydroxyethoxyl)ethyl]-piperazine ;	1800291-86-4	C ₂₇ H ₃₇ N ₅ O ₂ S	495.68	 C ₂₇ H ₃₇ N ₅ O ₂ S Mol. Wt.: 495.68
Quetiapine N-Oxide	2-[2-(4-Dibenzo[b,f][1,4]thiazepin-11-yl-1-piperazinyl)ethoxy]ethanol N-Oxide; Quetiapine EP Impurity H	1076199-40-0	C ₂₁ H ₂₅ N ₃ O ₃ S	399.51	
Quetiapine EP Impurity P	11-(4-Ethylpiperazin-1-yl)dibenzo[b,f][1,4]thiazepine hydrochloride ;	1011758-03-4	C ₁₉ H ₂₂ ClN ₃ S	359.92	 C ₁₉ H ₂₂ ClN ₃ S Mol. Wt.: 359.92
Quetiapine EP Impurity S	2-[2-[4-(5-Oxidodibenzo[b,f][1,4]thiazepin-11-yl)-1-piperazinyl]ethoxy]ethanol HCl ;	329216-63-9	C ₂₁ H ₂₅ N ₃ O ₃ S; C ₂₁ H ₂₅ N ₃ O ₃ S.HCl (HCl Salt) ;	399.51 ; 435.97 (HCl	 C ₂₁ H ₂₅ N ₃ O ₃ S Mol. Wt.: 435.97

Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
QUINAPRIL					
Quinapril Benzyl Ester	(S)-1,2,3,4-Tetrahydroisoquinoline-3-carboxylic acid benzyl ester HCl ;	103733-30-8	C17H18ClNO2	303.78	
Quinapril EP Impurity C	[3S-[2[R*(R*)],3R*]]-2-[2-[(1-Carboxy-3-phenylpropyl)amino]-1-oxopropyl]-1,2,3,4-tetrahydro-3-isoquinolinecarboxylic acid ;	82768-85-2	C23H26N2O5	410.46	
Quinaprilat Hydrate	CI-92;ci928;quinaprilat;Quinapril USP RC B;QUINAPRILAT HYDRATE;Quinapril EP Impurity C;Quinapril Related CoM pound B;Quinapril USP Related CoM pound B;(3s-(2(r*(r*)),3r*))-yl)amino)-1-oxopropyl];3-isoquinolinecarboxylic acid,1,2,3,4-tetrahydro-2-(2-((1-carboxy-3-phenylprop	82768-85-2	C23H26N2O5	410.47	
					
Salmeterol EP Impurity B	1-[4-Hydroxy-3-(hydroxymethyl)phenyl]-2-[[6-(2-phenylethoxy)hexyl]amino] ethanol ;				
R RALOXIFENE					
Raloxifene EP Impurity C	[6-Hydroxy-2-(4-hydroxyphenyl)benzo[b]thien-3-yl][4-[2-(1-piperidinyl) ethoxy]phenyl]methanone N-oxide ;	195454-31-0	C28H27NO5S	489.58	

Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Raloxifene N-Oxide	Raloxifene N-Oxide;Raloxifene EP IMPurity C;Raloxifene Related Compound C;Raloxifene IMPurity: IMPurity B;1-(2-{4-[6-Hydroxy-2-(4-hydroxyphenyl)benzothiofene-3-carbonyl]phenoxy}ethyl)piperidine 1-oxide;[6-Hydroxy-2-(4-hydroxyphenyl)benzo[b]thien-3-yl][4-[2-(1-oxido-1-piperidinyl)ethoxy]phenyl]Methanone;Raloxifene Related Compound C (20 mg) (1-(2-{	195454-31-0	C28H27NO5S	489.58268	
RAMIPRIL					
Ramipril EP Impurity A	Ramipril USP Related Compound A ; Ramipril Methyl Ester Analog ; (2S,3aS,6aS)-1-[(S)-2-[[[(S)-1-(Methoxycarbonyl)-3-phenylpropyl]amino]propanoyl]octahydrocyclopenta[b]pyrrole-2-carboxylic acid ;	NA	C22H30N2O5	402.48	 C ₂₂ H ₃₀ N ₂ O ₅ Mol. Wt.: 402.48
Ramipril EP Impurity B	(2S,3aS,6aS)-1-[(S)-2-[[[(S)-1-[(methylethoxy)carbonyl]-3-phenylpropyl]amino]propanoyl]octahydrocyclopenta[b]pyrrole-2-carboxylic acid ;	295328-72-2	C24H34N2O5	430.54	 C ₂₄ H ₃₄ N ₂ O ₅ Mol. Wt.: 430.54
Ramipril EP Impurity E	(2S,3aS,6aS)-1-[(S)-2-[[[(S)-1-carboxy-3-phenylpropyl]amino]propanoyl]octahydrocyclopenta[b]pyrrole-2-carboxylic acid disodium salt ;	87269-97-4 (acid)	C21H28N2O5	388.46	 C ₂₁ H ₂₈ N ₂ Na ₂ O ₅ Mol. Wt.: 432.42
Ramipril EP Impurity F	Trandolapril ECPA Impurity ; (2S)-2-[[[(1S)-1-(Ethoxycarbonyl)-3-phenylpropyl]amino]propanoic acid ; N-[(S)-(+)-1-(Ethoxycarbonyl)-3-phenylpropyl]-L-alanine ("ECPA") ;	82717-96-2	C15H21NO4	279.33	 C ₁₅ H ₂₁ NO ₄ Mol. Wt.: 279.33

Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Ramipril EP Impurity O	Diethyl 2,2'-(2,5-dimethyl-3,6-dioxopiperazine-1,4-diyl)bis(4-phenylbutanoate) ;	151387-05-2	C30H38N2O6	522.63	 C ₃₀ H ₃₈ N ₂ O ₆ Mol. Wt. 522.63
Ramipril EP Impurity N	(2R,3aR,6aR)-1-[(S)-2-[[[S]-1-(ethoxycarbonyl)-3-phenylpropyl]amino]propanoyl]octahydrocyclopenta [b] pyrrole-2-carboxylic acid ;	129939-63-5	C23H32N2O5	416.51	 C ₂₃ H ₃₂ N ₂ O ₅ Mol. Wt. 416.51
Ramipril EP Impurity B	(2S,3aS,6aS)-1-[(S)-2-[[[S]-1-[(methylethoxy)carbonyl]-3-phenylpropyl]amino]propanoyl]octahydrocyclopenta[b]pyrrole-2-carboxylic acid ;	295328-72-2	C24H34N2O5	430.54	 C ₂₄ H ₃₄ N ₂ O ₅ Mol. Wt. 430.54
(R,R,R)-2-AZABICYCLO[3.3.0]OCTANE-3-CARBOXYLIC ACID, BENZYL ESTER;(2R,3aR,6aR)-Octahydro-cyclopenta[b]pyrrole-2-carboxylic Acid PhenylMethyl Ester		129101-19-5	C15H19NO2	245.32	 C ₁₅ H ₁₉ N ₁ O ₂
Ramipril EP Impurity C	(2S,3aS,6aS)-1-[(S)-2-[[[S]-1-(Ethoxycarbonyl)-3-cyclohexylpropyl]amino]propanoyl]octahydrocyclopenta[b]pyrrole-2-carboxylic acid hydrochloride ;	99742-35-5	C23H39ClN2O5	459.02	 C ₂₃ H ₃₉ ClN ₂ O ₅ Mol. Wt. 459.02
RABEPRAZOLE					
Rabeprazole EP Impurity A	Rabeprazole USP Related Compound D ;Rabeprazole Sulfone ;2-[[[4-(3-Methoxypropoxy)-3-methyl-pyridin-2-yl]methylsulfonyl]benzimidazole ;	117976-47-3	C18H21N3O4	375.44	 C ₁₈ H ₂₁ N ₃ O ₄ S Mol. Wt. 375.44

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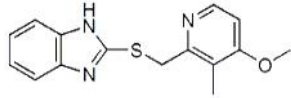
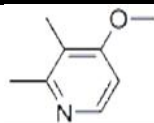
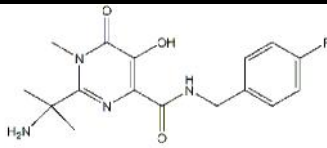
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Rabeprazole EP Impurity B	2-[[4-(3-Methoxypropoxy)-3-methyl-pyridin-2-yl]methylthio]benzimidazole ;	117977-21-6	C ₁₈ H ₂₁ N ₃ O ₂ S	343.44	 C ₁₈ H ₂₁ N ₃ O ₂ S Mol. Wt.: 343.44
Rabeprazole EP Impurity D	Rabeprazole N-Oxide ; 2-[[[1-Oxide-4-(3-methoxypropoxy)-3-methyl-2-pyridinyl] methyl]sulfinyl]-1H-benzimidazole ;	924663-38-7	C ₁₈ H ₂₁ N ₃ O ₄ S	375.44	 C ₁₈ H ₂₁ N ₃ O ₄ S Mol. Wt.: 375.44
Rabeprazole EP Impurity E	4-Desmethoxypropoxyl-4-Methoxy Rabeprazole ; 2-[[4-(4-Methoxy-3-methyl-2-pyridinyl)methyl]sulfinyl]-1H-benzimidazole ;	102804-77-3	C ₁₅ H ₁₅ N ₃ O ₂ S	301.36	 C ₁₅ H ₁₅ N ₃ O ₂ S Mol. Wt.: 301.36
Rabeprazole 4-Chloro Analog Sulfide	2-[(RS)-[(4-Chloro-3-methylpyridin-2-yl)methyl]sulphanyl]-1H-benzimidazole ; 4-Desmethoxypropoxyl-4-Chloro Rabeprazole Sulfide ;	103312-62-5	C ₁₄ H ₁₂ ClN ₃ S	289.78	 C ₁₄ H ₁₂ ClN ₃ S Mol. Wt.: 289.78
Rabeprazole EP Impurity H	2-[(RS)-[(4-Chloro-3-methylpyridin-2-yl)methyl]sulphanyl]-1H-benzimidazole ; 4-Desmethoxypropoxyl-4-Chloro Rabeprazole ;	168167-42-8	C ₁₄ H ₁₂ ClN ₃ OS	305.78	 C ₁₄ H ₁₂ ClN ₃ OS Mol. Wt.: 305.78
Rabeprazole N-Alkyl Sulfone	1-[[4-(3-Methoxypropoxy)-3-methyl-2-pyridinyl]methyl]-2-[[[4-(3-methoxypropoxy)-3-methyl-2-pyridinyl]methyl]sulfonyl]-1H-benzimidazole ;	1246818-79-0	C ₂₉ H ₃₆ N ₄ O ₆ S	568.68	 C ₂₉ H ₃₆ N ₄ O ₆ S Mol. Wt.: 568.68

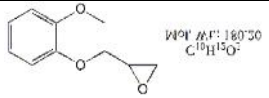
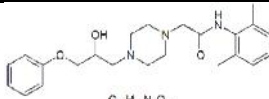
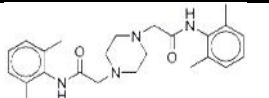
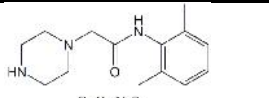
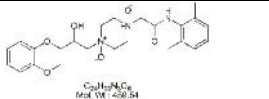
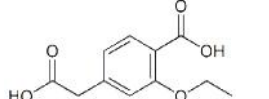
Impurity Catalogue

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Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Rabeprazole EP Impurity C	(1H-Benzimidazol-2-yl)-3-methyl-4-oxo-1,4-dihydropyridine-2-carboxylate, sodium salt ;	1163685-30-0 (free acid) ;	C ₁₄ H ₁₀ N ₃ NaO ₃	291.24	 C ₁₄ H ₉ N ₃ NaO ₃ Mol. Wt.: 291.24
Rabeprazole 2-Chloromethyl Impurity	2-Chloromethyl-3-methyl-4-(3-methoxypropoxy)pyridine hydrochloride ;	153259-31-5	C ₁₁ H ₁₇ Cl ₂ N ₂ O ₂	266.16	 C ₁₁ H ₁₇ Cl ₂ N ₂ O ₂ Mol. Wt.: 266.16
Rabeprazole Sulfide N-Oxide	Rabeprazole Sulfide N-Oxide ; 2-[[[4-(3-Methoxypropoxy)-3-methyl-1-oxido-2-pyridinyl]methyl]thio]-1H-benzimidazole.	924663-40-1	C ₁₈ H ₂₁ N ₃ O ₃ S	359.44	
Rabeprazole Methoxy Sulfide	2-[[[4-(3-Methoxy-3-methylpyridin-2-yl)methyl]thio]benzimidazole.	102804-82-0	C ₁₅ H ₁₅ N ₃ O ₃ S	285.36	
Rabeprazole Impurity Dimer	2-[[[3-Methyl-4(3-methoxypropoxy)-pyridine-2-yl]methyl]sulphinyl]-1[[[4-(3-methoxypropoxy)-3-methyl]pyridine-2-yl]methyl]-1H-benzimidazole.	NA	C ₂₉ H ₃₆ N ₄ O ₅ S	552.69	
2-Mercaptobenzimidazole	1,3-Dihydro-2H-benzimidazole-2-thione; 2-Benzimidazolinethione; 1H-Benzimidazole-2-thiol; 2-Mercapto-1H-benzimidazole; 2-Thiobenzimidazole; Antigene MB; Antioxidant Rabeprazole Related Compound CMB; Permanax 21; Sandant MB; Sumilizer MB; Vulkanox; o-Phenylene thiourea; Rabeprazole Related	583-39-1	C ₇ H ₆ N ₂ S	C ₇ H ₆ N ₂ S	

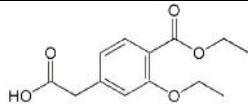
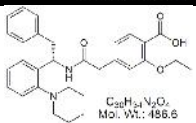
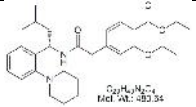
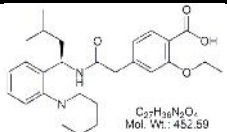
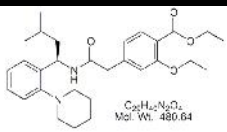
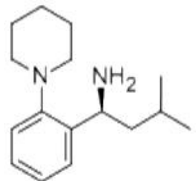
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
	Compound C USP,				
Rabeprazole EP Impurity G	Rabeprazole Sulfide 4-Methoxy Analog ; 4-Desmethoxypropoxyl-4-Methoxy Rabeprazole Sulfide ; 2-[[[(4-Methoxy-3-methyl-2-pyridinyl)methyl]sulfonyl]-1H-benzimidazole ;	102804-82-0	C ₁₅ H ₁₅ N ₃ OS	285.36	 <p>C₁₅H₁₅N₃OS Mol. Wt.: 285.36</p>
Rabeprazole Methoxy IMP SM	Pyridine, 4-methoxy-2,3-dimethyl- (9CI).	163593-69-9	C ₈ H ₁₁ NO	137.18	
RALTEGRAVIR					
Raltegravir Amine Impurity	2-(2-Aminopropan-2-yl)-N-(4-fluorobenzyl)-5-hydroxy-1-methyl-6-oxo-1,6-dihydropyrimidine-4-carboxamide ;	518048-03-8	C ₁₆ H ₁₉ FN ₄ O ₃	334.35	 <p>C₁₆H₁₉FN₄O₃ Mol. Wt.: 334.35</p>
RASAGILINE					
Rasagiline Mesylate Impurity C	Rasagiline Mesylate Impurity C; Dipropargyl r-amino indane; (R)-N,N-di(prop-2-yn-1-yl)-2,3-dihydro-1H-inden-1-amine; Dipropargyl r-amino indane.	1458609-07-8	C ₁₅ H ₁₅ N	209.29	
RONALAZINE					

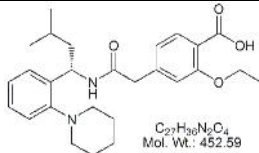
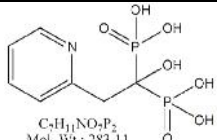
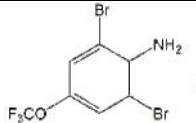
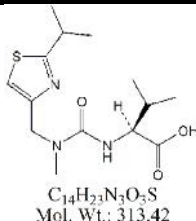
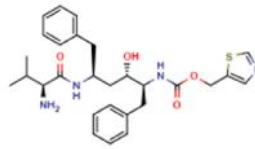
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Ranolazine USP RC A	2-[(2-Methoxyphenoxy)methyl]oxirane ; 1-(2,3-Epoxypropoxy)-2-methoxybenzene ;	2210-74-4	C10H12O3	180.20	 Mol. Wt.: 180.20 C ₁₀ H ₁₂ O ₃
Ranolazine USP RC B	N-(2,6-Dimethylphenyl)-4-(2-hydroxy-3-phenoxypropyl)-1-piperazineacetamide ;	755711-09-2	C23H31N3O3	397.51	 C ₂₃ H ₃₁ N ₃ O ₃ Mol. Wt.: 397.51
Ranolazine Impurity 1	N1,N4-Bis(2,6-dimethylphenyl)-1,4-piperazinediacetamide; Impurity:	380204-72-8	C24H32N4O2	408.54	 C ₂₄ H ₃₂ N ₄ O ₂ Mol. Wt.: 408.54
Ranolazine USP RC C	N-(2,6-Dimethylphenyl)-1-piperazineacetamide ;	5294-61-1	C14H21N3O	247.34	 C ₁₄ H ₂₁ N ₃ O Mol. Wt.: 247.34
Ranolazine Bis-N-Oxide	N-(2,6-Dimethylphenyl)-4-[2-hydroxy-3-(2-methoxyphenoxy)propyl]-1-piperazine acetamide 1,4-dioxide ;	1246816-00-1	C24H33N3O6	459.54	 C ₂₄ H ₃₃ N ₃ O ₆ Mol. Wt.: 459.54
REPAGLINIDE					
Repaglinide EP Impurity A	4-(Carboxymethyl)-2-ethoxybenzoic acid	220438-80-2	C11H12O5	224.21	 C ₁₁ H ₁₂ O ₅ Mol. Wt.: 224.21

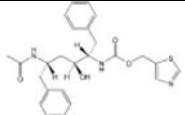
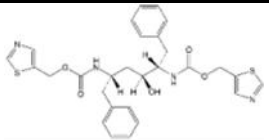
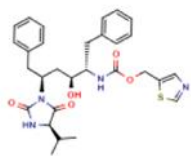
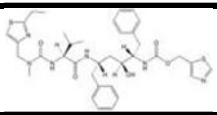
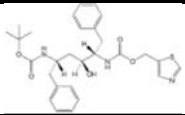
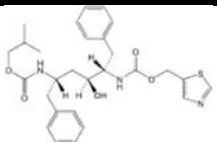
Impurity Catalogue

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Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Repaglinide EP Impurity B	[3-Ethoxy-4-(ethoxycarbonyl)phenyl]acetic acid ;	99469-99-5	C13H16O5	252.26	 <p>C₁₃H₁₆O₅ Mol. Wt.: 252.26</p>
Repaglinide USP RC C	(S)-2-Ethoxy-4-[2-[[2-phenyl-1-[2-(1-piperidinyl)phenyl]ethyl]-amino]-2-oxoethyl] benzoic acid ;	107362-12-9	C30H34N2O4	486.6	 <p>C₃₀H₃₄N₂O₄ Mol. Wt.: 486.6</p>
Repaglinide EP Impurity D	Repaglinide Ethyl Ester ; Ethyl 2-ethoxy-4-[2-[[[(1S)-3-methyl-1-[2-(piperidin-1-yl)phenyl] butyl] amino]-2-oxoethyl]benzoate ;	147770-06-7	C29H40N2O4	480.64	 <p>C₂₉H₄₀N₂O₄ Mol. Wt.: 480.64</p>
Repaglinide EP Impurity E	Repaglinide R-Isomer ; 2-Ethoxy-4-[2-[[[(1R)-3-methyl-1-[2-(piperidin-1-yl)phenyl]butyl]amino]-2-oxoethyl]benzoic acid ;	147852-26-4	C27H36N2O4	452.59	 <p>C₂₇H₃₆N₂O₄ Mol. Wt.: 452.59</p>
Repaglinide R-Isomer Ethyl Ester	2-Ethoxy-4-[2-[[[(1R)-3-methyl-1-[2-(piperidin-1-yl)phenyl]butyl]amino]-2-oxoethyl]benzoic acid ethyl ester ;	147770-08-9	C29H40N2O4	480.64	 <p>C₂₉H₄₀N₂O₄ Mol. Wt.: 480.64</p>
(S)-3-Methyl-1-(2-Piperidin-1-ylphenyl)Butylamine	(S)-[A-(2-methylpropyl)-2-(1-piperidinyl)benzene-methanamine (S)-3-METHYL-1-[2-(1-PIPERIDINYL)PHENYL]-BUTYLAMINE Repaglinide Intermediate 1 Repaglinide intermediate 4 (S)-3-Methyl-1-(2-piperidin-1-ylphenyl)butylamine.	147769-93-5	C16H26N2	246.39	

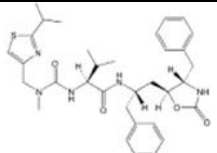
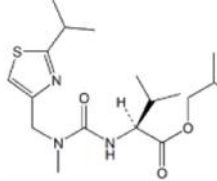
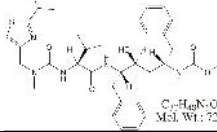
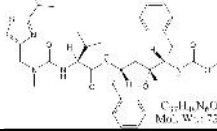
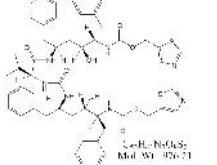
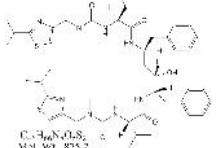
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Repaglinid	2-Ethoxy-4-[2-[[[(1S)-3-methyl-1-[2-(piperidin-1-yl)phenyl] butyl] amino]-2-oxoethyl]benzoic acid ;	135062-02-1	C ₂₇ H ₃₆ N ₂ O ₄	452.59	 C ₂₇ H ₃₆ N ₂ O ₄ Mol. Wt.: 452.59
RISEDRONATE					
Risedronate EP Impurity B	Risedronate USP RC A ; [1-Hydroxy-2-(pyridin-2-yl)ethylidene]bis(phosphonic acid) ;	105462-23-5	C ₇ H ₁₁ NO ₇ P ₂	283.11	 C ₇ H ₁₁ NO ₇ P ₂ Mol. Wt.: 283.11
Riluzole Dibromo Impurity	Dibromotrifluoromethoxyaniline ; 2,6-Dibromo-4-(trifluoromethoxy)aniline ; 2,6-Dibromo-4-(trifluoromethoxy)benzenamine ;	88149-49-9	C ₇ H ₄ Br ₂ F ₃ NO	334.92	 C ₇ H ₄ Br ₂ F ₃ NO Mol. Wt.: 334.92
RITONAVIR					
Ritonavir EP Impurity A	Ritonavir BP Impurity A ; Ureidovaline Ritonavir (USP) ; (2S)-3-Methyl-2-[[methyl[[2-(1-methylethyl)thiazol-4-yl]methyl]carbamoyl] amino]butanoic acid ;	154212-61-0	C ₁₄ H ₂₃ N ₃ O ₃ S	313.42	 C ₁₄ H ₂₃ N ₃ O ₃ S Mol. Wt.: 313.42
Ritonavir EP Impurity B	NA	165315-97-9	C ₂₈ H ₃₆ N ₄ O ₄ S	524.67	

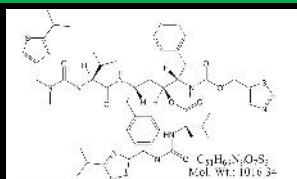
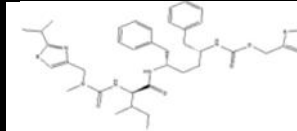
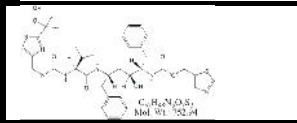
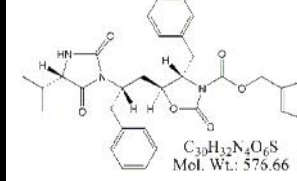
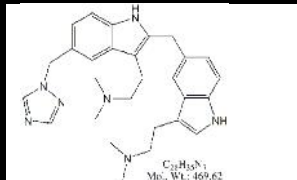
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Ritonavir EP Impurity C	NA	1010808-43-1	C25H29N3O4S	467.58	
Ritonavir Impurity D	NA	NA	C28H30N4O5S2	566.69	
Ritonavir EP Impurity E	NA	176655-56-4	C37H48N6O6S2	736.94	
Ritonavir EP Impurity F	NA	1010809-61-6	C29H34N4O5S	550.67	
Ritonavir EP Impurity I	NA	165315-26-4	C36H46N6O5S2	706.92	
Ritonavir EP Impurity J	NA	162849-95-8	C28H35N3O5S	525.66	
Ritonavir EP Impurity K	NA	NA	C28H35N3O5S	525.66	

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Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Ritonavir EP Impurity L	NA	256328-82-2	C33H43N5O4S	605.79	
Ritonavir EP Impurity M	NA	NA	C18H31N3O3S	369.52	
Ritonavir EP Impurity N	NA	202816-62-4	C37H48N6O5S2	720.94	 C ₃₇ H ₄₈ N ₆ O ₅ S ₂ Mol. Wt: 720.94
Ritonavir EP Impurity O	NA	1414933-81-5	C37H48N6O5S2	720.94	 C ₃₇ H ₄₈ N ₆ O ₅ S ₂ Mol. Wt: 720.94
Ritonavir EP Impurity S	NA	NA	C52H61N7O8S2	976.21	 C ₅₂ H ₆₁ N ₇ O ₈ S ₂ Mol. Wt: 976.21
Ritonavir EP Impurity T	NA	869368-48-9	C46H66N8O5S2	875.2	 C ₄₆ H ₆₆ N ₈ O ₅ S ₂ Mol. Wt: 875.2

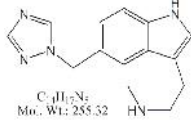
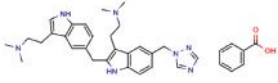
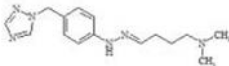
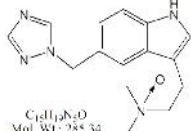
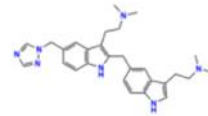
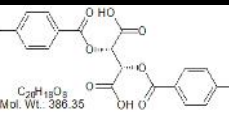
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Ritonavir EP Impurity U	NA	NA	C51H69N9O7S3	1016.34	 C ₅₁ H ₆₉ N ₉ O ₇ S ₃ Mol. Wt: 1016.34
Ritonavir Impurity V	(thiazol-5-yl)methyl (2R,5S)-1,6-diphenyl-5-(urea)hexan-2-ylcarbamate	NA	C38H50N6O4S2	718.97	
Ritonavir EP Impurity G	NA		C37H48N6O7S2	752.94	 C ₃₇ H ₄₈ N ₆ O ₇ S ₂ Mol. Wt: 752.94
Ritonavir EP Impurity H	Ritonavir BP Impurity H ; Hydantoin-Oxazolidinone Ritonavir (USP) ; Des-Isopropylthiazolyl Hydantoin-Oxazolidinone Ritonavir ; Thiazol-5-yl-methyl (4S,5S)-4-benzyl-5-[(2S)-2-[(4S)-4-(1-methylethyl)-2,5-dioximidazolidin-1-yl]-3phenylpropyl]-2-oxooxazolidine-3-carboxylate ;	1010809-43-4	C30H32N4O6S	576.66	 C ₃₀ H ₃₂ N ₄ O ₆ S Mol. Wt: 576.66
RIZATRIPTAN					
Rizatriptan EP Impurity A	2-[2-[[3-[2-(Dimethylamino)ethyl]-1H-indol-5-yl]methyl]5-(1H-1,2,4-triazol-1-ylmethyl)-1H-indol-3-yl]-N,N-dimethylethanamine ;	NA	C28H35N7	469.62	 C ₂₈ H ₃₅ N ₇ Mol. Wt: 469.62

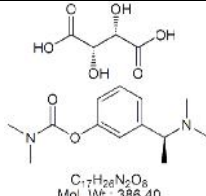
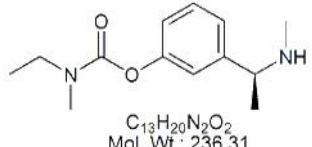
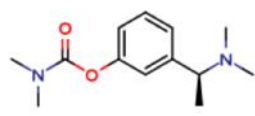
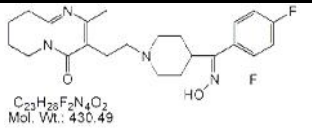
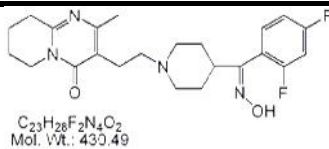
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Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Rizatriptan EP Impurity B	N,N-Dimethyl-2-[5-(1H-1,2,4-triazol-1-ylmethyl)-1H-indol-3-yl]-N-[2-[5-(1H-1,2,4-triazol-1-ylmethyl)-1H-indol-3-yl]ethyl]ethanaminium chloride ;	NA	C28H32ClN9	530.07	
Rizatriptan EP Impurity C	Iso Rizatriptan ; N,N-Dimethyl-2-[5-(1H-1,2,4-triazol-1-ylmethyl)-1H-indol-2-yl]ethanamine ;	208941-96-2	C15H19N5	269.34	
Rizatriptan EP Impurity D	N,N,N-Triethyl-2-[5-(1H-1,2,4-triazol-1-ylmethyl)-1H-indol-3-yl]ethanaminium chloride ;	NA	C19H28ClN5	361.92	
Rizatriptan EP Impurity E	N,N-Dimethyl-2-[1-(methylsulfonyl)-5-(1H-1,2,4-triazol-1-ylmethyl)-1H-indol-3-yl]ethanamine ;	NA	C16H21N5O2S	347.44	
Rizatriptan EP Impurity F	2-[5-(1H-1,2,4-Triazol-1-ylmethyl)-1H-indol-3-yl]ethanol ;	NA	C13H14N4O	242.28	
Rizatriptan EP Impurity G	3-(2-Chloroethyl)-5-(1H-1,2,4-triazol-1-ylmethyl)-1H-indole ;	1000673-59-5	C13H13ClN4	260.72	

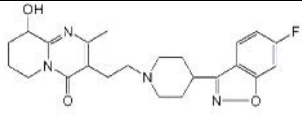
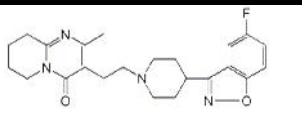
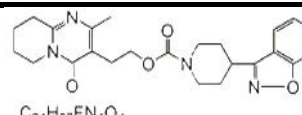
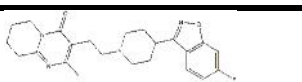
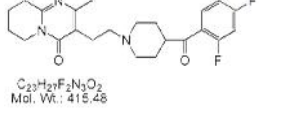
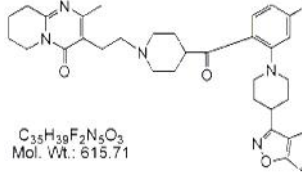
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Rizatriptan EP Impurity I	N-Desmethyl Rizatriptan ; N-Methyl-2-[5-(1H-1,2,4-triazol-1-ylmethyl)-1H-indol-3-yl]ethanamine ;	144034-84-4	C ₁₄ H ₁₇ N ₅	255.32	 C ₁₄ H ₁₇ N ₅ Mol. Wt: 255.32
2-[[3-[2-(Dimethylamino)ethyl]-1H-indol-5-yl]methyl]-1H-Indol-5-Yl]Methyl] Rizatriptan Benzoate.	2-[[3-[2-(Dimethylamino)ethyl]-1H-indol-5-yl]methyl]-N,N-dimethyl-5-(1H-1,2,4-triazol-1-ylmethyl)-1H-indole-3-ethanamine Benzoate; Rizatriptan Dimer Benzoate;	1016900-25-6	C ₃₅ H ₄₁ N ₇ O ₂	591.75	
Hydrazone Impurity	NA	1016900-24-5	C ₁₅ H ₂₂ N ₆	286.38	
Rizatriptan N-Oxide	N,N-Dimethyl-2-[5-(1H-1,2,4-triazol-1-ylmethyl)-1H-indol-3-yl]ethanamine N-oxide ;	260435-42-5	C ₁₅ H ₁₉ N ₅ O	285.34	 C ₁₅ H ₁₉ N ₅ O Mol. Wt: 285.34
Rizatriptan Dimer	2-(5-((1H-1,2,4-triazol-1-yl)methyl)-2-((3-(2-(dimethylamino)ethyl)-1H-indol-5-yl)methyl)-1H-indol-3-yl)-N,N-dimethylethan-1-amine.	NA	C ₂₈ H ₃₅ N ₇	469.64	
RIVASTIGMINE					
Rivastigmine USP RC A	Rivastigmine USP Related Compound A ; (+)-Di-p-toluoyl-D-(+)-tartaric acid ;	32634-68-7	C ₂₀ H ₁₈ O ₈	386.35	 C ₂₀ H ₁₈ O ₈ Mol. Wt: 386.35

Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Rivastigmine USP RC B	Rivastigmine USP Related Compound B (Tartrate Salt) ; Rivastigmine Tartrate Dimethyl Analog ; (S)-3-[1-(Dimethylamino)ethyl]phenyl dimethylcarbamate tartrate ; N,N-Dimethylcarbamic acid 3-[(S)-1-(dimethyl amino)ethyl]phenyl ester tartrate ;	25081-93-0 (rac base)	C ₁₇ H ₂₆ N ₂ O ₈	386.40	 C ₁₇ H ₂₆ N ₂ O ₈ Mol. Wt.: 386.40
Rivastigmine EP Impurity E	3-[(1S)-1-(Methylamino)ethyl]phenyl ethyl(methyl)-carbamate ;	923035-05-6	C ₁₃ H ₂₀ N ₂ O ₂	236.31	 C ₁₃ H ₂₀ N ₂ O ₂ Mol. Wt.: 236.31
Desmethyl Rivastigmine	N,N-Dimethylaminoethyl]phenyl Ester	1230021-28-9	C ₁₃ H ₂₀ N ₂ O ₂	236.31	
RISPERIDONE					
Risperidone EP Impurity A	3-[2-[4-[(E)-(2,4-difluorophenyl)(hydroxyimino)methyl]piperidin-1-yl]ethyl]-2-methyl-6,7,8,9-tetrahydro-4H-pyrido[1,2-a]pyrimidin-4-one ;	691007-09-7	C ₂₃ H ₂₈ F ₂ N ₄ O ₂	430.49	 C ₂₃ H ₂₈ F ₂ N ₄ O ₂ Mol. Wt.: 430.49
Risperidone EP Impurity B	3-[2-[4-[(Z)-(2,4-Difluorophenyl)(hydroxyimino)methyl]piperidin-1-yl]ethyl]-2-methyl-6,7,8,9-tetrahydro-4H-pyrido[1,2-a]pyrimidin-4-one ;	132961-05-8	C ₂₃ H ₂₈ F ₂ N ₄ O ₂	430.49	 C ₂₃ H ₂₈ F ₂ N ₄ O ₂ Mol. Wt.: 430.49

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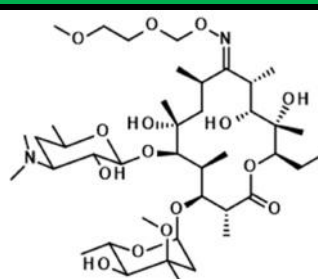
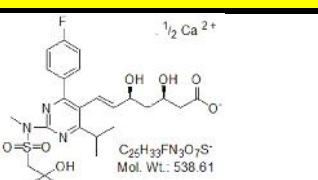
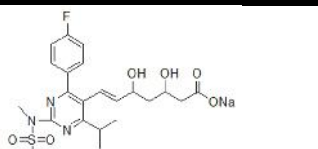
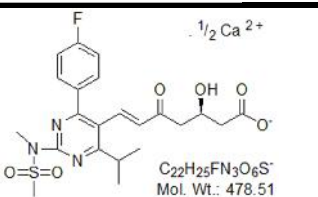


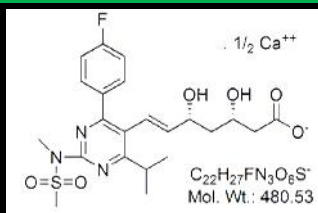
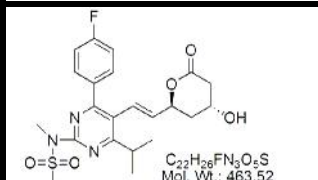
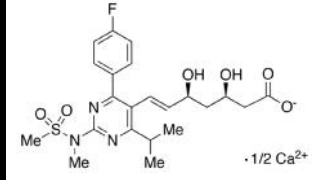
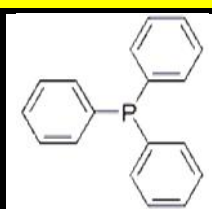
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Risperidone EP Impurity C	(9RS)-3-[2-[4-(6-Fluoro-1,2-benzisoxazol-3-yl)piperidin-1-yl]ethyl]-9-hydroxy-2-methyl-6,7,8,9-tetrahydro-4H-pyrido[1,2-a]pyrimidin-4-one ;	144598-75-4	C23H27FN4O3	426.48	 <p>C₂₃H₂₇FN₄O₃ Mol. Wt.: 426.48</p>
Risperidone EP Impurity D	Risperidone BP Impurity D ; Risperidone 5-Fluoro Isomer ; 3-[2-[4-(5-Fluoro-1,2-benzisoxazol-3-yl)piperidin-1-yl]ethyl]-2-methyl-6,7,8,9-tetrahydro-4H-pyrido[1,2-a]pyrimidin-4-one ;	1199589-74-6	C23H27FN4O2	410.48	 <p>C₂₃H₂₇FN₄O₂ Mol. Wt.: 410.48</p>
Risperidone EP Impurity F	2-[2-Methyl-4-oxo-6,7,8,9-tetrahydro-4H-pyrido[1,2-a]pyrimidin-3-yl] ethyl 4-(6-fluoro-1,2-benzisoxazol-3-yl)piperidin-1-carboxylate ;	1346603-86-8	C24H27FN4O4	454.49	 <p>C₂₄H₂₇FN₄O₄ Mol. Wt.: 454.49</p>
Risperidone EP Impurity G	Risperidal impurityG;Risperidone EP Impurity G	NA	C23H27FN4O2	410.49	
Risperidone EP Impurity H	3-[2-[4-(2,4-Difluorobenzoyl)piperidin-1-yl]ethyl]-2-methyl-6,7,8,9-tetrahydro-4H-pyrido[1,2-a]pyrimidin-4-one ;	158697-67-7	C23H27F2N3O2	415.48	 <p>C₂₃H₂₇F₂N₃O₂ Mol. Wt.: 415.48</p>
Risperidone EP Impurity I	3-[2-[4-[4-Fluoro-2-[4-(6-fluoro-1,2-benzisoxazol-3-yl)piperidin-1-yl]benzoyl]piperidin-1-yl]ethyl]-2-methyl-6,7,8,9-tetrahydro-4H-pyrido[1,2-a]pyrimidin-4-one ;	1329796-66-8	C36H39F2N5O3	615.71	 <p>C₃₆H₃₉F₂N₅O₃ Mol. Wt.: 615.71</p>



Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Risperidone EP Impurity J	3-[2-[4-[(Z)-(4-Fluoro-2-[4-(6-fluoro-1,2-benzisoxazol-3-yl)piperidin-1-yl]phenyl](hydroxyimino)methyl]piperidin-1-yl]ethyl]-2-methyl-6,7,8,9-tetrahydro-4H-pyrido[1,2-a]pyrimidin-4-one ;	1346606-24-3	C35H40F2N6O3	630.73	 C ₃₅ H ₄₀ F ₂ N ₆ O ₃ Mol. Wt.: 630.73
Risperidone EP Impurity K	3-[2-[4-(1,2-Benzisoxazol-3-yl)piperidin-1-yl]ethyl]-2-methyl-6,7,8,9-tetrahydro-4Hpyrido[1,2-a]pyrimidin-4-one ;	106266-09-5	106266-09-5	392.49	 C ₂₃ H ₂₈ N ₄ O ₂ Mol. Wt.: 392.49
Risperidone EP Impurity M	Risperidone EP Impurity M ; Risperidone Amine Impurity (HCl Salt) ; Paliperidone USP RC B ; 6-Fluoro-3-(4-piperidinyl)-1,2-benzisoxazole hydrochloride ;	84163-13-3 (HCl salt) ;	C12H14ClFN2O	256.70	 C ₁₂ H ₁₄ ClFN ₂ O Mol. Wt.: 256.70
Risperidone N-Oxide	3-[2-[4-(6-Fluoro-1,2-benzisoxazol-3-yl)-1-oxido-1-piperidinyl]ethyl]-6,7,8,9-tetrahydro-2-methyl-4H-pyrido[1,2-a]pyrimidin-4-one ;	832747-55-4	C23H27FN4O3	426.48	 C ₂₃ H ₂₇ FN ₄ O ₃ Mol. Wt.: 426.48
Risperidone Ethyl Impurity	3-Ethyl-2-methyl-6,7,8,9-tetrahydro-4H-pyrido-(1,2-a)-pyrimidin-4-one ;	70381-58-7	C11H16N2O	192.26	 C ₁₁ H ₁₆ N ₂ O Mol. Wt.: 192.26
Tetradehydro Risperidone	3-[2-[4-(6-Fluoro-1,2-benzisoxazol-3-yl)-1-piperidinyl]ethyl]-2-methyl-4H-pyrido[1,2-a]pyrimidin-4-one; 1,2-Benzisoxazole, 4H-pyrido[1,2-a]pyrimidin-4-one deriv.	108855-18-1	C23H23FN4O2	406.45	 C ₂₃ H ₂₃ FN ₄ O ₂

ROXITHROMYCIN

Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Roxithromycin EP Impurity F	Roxithromycin EP Impurity F; (E)-N-Demethylroxitr4R,E)-14-ethyl-7,12,13-trihydroxy-4-(((2R,4R,5S,6S)-5-hydroxy-4-methoxy-4,6-dimethyltetrahydro-2H-pyran-2-yl)oxy)-6-(((2S,3R,4S,6R)-3-hydroxy-6-methyl-4-(methylamino)tetrahydro-2H-pyran-2-yl)oxy)-10-(((2-methoxyethoxy)methoxy)imino)-3,5,7,9,11,13-hexamethyl-2-one.	118267-18-8	C40H74N2O15	823.02	
ROSUVASTATIN					
Rosuvastatin EP Impurity A (Calcium Salt)	Rosuvastatin EP Impurity A (Calcium Salt) ; Rosuvastatin USP RC A ; S-Desmethyl-S-(2-Hydroxy-2-Methylpropyl) Rosuvastatin Calcium ; (3R,5S,6E)-7-[4-(4-Fluorophenyl)-6-(1-methylethyl)-2-[methyl (2-hydroxy-2-methylpropylsulfonyl)amino]-5-pyrimidinyl]-3,5-dihydroxy-6-heptenoic acid calcium salt ;	1714147-50-8	C25H33FN3O7S	538.61	 C ₂₅ H ₃₃ FN ₃ O ₇ S ⁻ Mol. Wt.: 538.61
Rosuvastatin EP Impurity B	Anti isomer impurity of Rosuvastatin; (3RS,5RS,6E)-7-[4-(4-Fluorophenyl)-6-(1-methylethyl)-2-[methyl (methyl sulfonyl)amino]-5-pyrimidinyl]-3,5-dihydroxy-6-heptenoic acid sodium salt;	NA	C22H27FN3NaO6S	503.52	
Rosuvastatin EP Impurity C (Calcium Salt)	Rosuvastatin EP Impurity C (Calcium Salt) ; Rosuvastatin 5-Oxo Calcium ; 5-Oxo-Rosuvastatin Calcium ; 3-Hydroxy-5-Keto Rosuvastatin Calcium ; (3R,6E)-7-[4-(4-Fluorophenyl)-6-(1-methylethyl)-2-[methyl(methylsulfonyl) amino]-5-pyrimidinyl]-3-hydroxy-5-oxo-6-heptenoic acid calcium salt ;	1422619-13-3 (acid)	C22H25FN3O6S	478.51	 C ₂₂ H ₂₅ FN ₃ O ₆ S ⁻ Mol. Wt.: 478.51

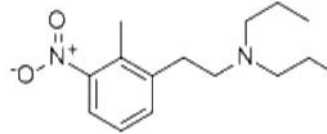
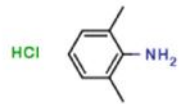
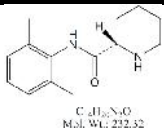
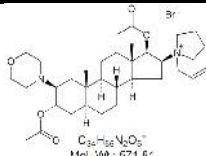
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Rosuvastatin EP Impurity G	Rosuvastatin USP RC D ; Rosuvastatin Calcium Enantiomer ; anti-Rosuvastatin Calcium ; Rosuvastatin Calcium (3S,5R)-Isomer; (3S,5R)-Rosuvastatin Calcium ; (3S,5R,6E)-7-[4-(4-Fluorophenyl)-6-(1-methylethyl)-2-[methyl (methyl sulfonyl) amino]-5-pyrimidinyl]-3,5-dihydroxy-6-heptenoic acid calcium salt ;	1242184-42-4 (acid)	C ₂₂ H ₂₇ FN ₃ O ₆ S	480.53	 C ₂₂ H ₂₇ FN ₃ O ₆ S ⁻ Mol. Wt.: 480.53
Rosuvastatin Lactone	N-[4-(4-Fluorophenyl)-6-(1-methylethyl)-5-[(1E)-2-[(2S,4R)-tetrahydro-4-hydroxy-6-oxo-2H-pyran-2-yl]ethenyl]-2-pyrimidinyl]-N-methylmethanesulfonamide ;	503610-43-3	C ₂₂ H ₂₆ FN ₃ O ₅ S	463.52	 C ₂₂ H ₂₆ FN ₃ O ₅ S Mol. Wt.: 463.52
Rosuvastatin Calcium Salt	(3R,5S,6E)-7-[4-(4-Fluorophenyl)-6-(1-methylethyl)-2-[methyl(methylsulfonyl)amino]-5-pyrimidinyl]-3,5-dihydroxy-6-heptenoic Acid Calcium Salt; Crestor; ZD 4522 Calcium Salt; Rosuvastatin Hemicalcium; Rosuvastatin Calcium; Fortius; Rostar; S 4522;	147098-20-2	C ₂₂ H ₂₇ FN ₃ O ₆ S	500.57	 · 1/2 Ca ²⁺
ROPINIROLE					
Ropinirole Impurity A (Monopropyl Ropinirole)	Ropinirole N-Despropyl Impurity ; 4-[2-(Propylamino)ethyl]-2-indolinone monohydrochloride ; Monopropyl Ropinirole.	173990-76-6	C ₁₃ H ₁₈ N ₂ O	218.29	

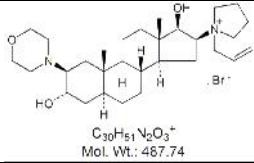
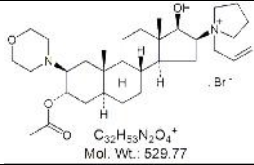
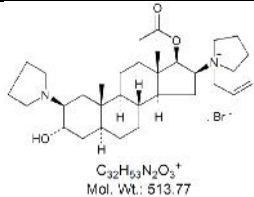
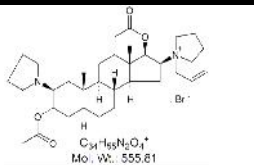
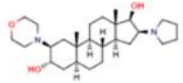
Impurity Catalogue

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Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Ropinirole USP RC B	3-Oxo Ropinirole Hydrochloride ; 4-[2-(Dipropylamino)ethyl]indoline-2,3-dione HCl ;	221264-21-7	C ₁₆ H ₂₃ ClN ₂ O ₂	310.82	
Ropinirole N-Hydroxy Impurity	Ropinirole N-Hydroxy Impurity ; N-Hydroxy Ropinirole Hydrochloride ; 4-[2-(Dipropylamino)ethyl]-1-hydroxy-2-indolinone monohydrochloride.	954117-22-7	C ₁₆ H ₂₄ N ₂ O ₂	276.37	
Ropinirole Open Ring Nitro Impurity	Ropinirole Open Ring Nitro Impurity ; 2-[2-(Dipropylamino)ethyl]-6-nitrophenyl acetic acid hydrochloride.	91374-25-3	C ₁₆ H ₂₄ N ₂ O ₄	308.37	
2-Nitro-6-[2-(N,N-Di-N-Propylamino) Ethyl] Phenyl Pyruvic Acid	3-{2-[2-(dipropylamino)ethyl]-6-nitrophenyl}-2-oxopropanoic acid.	97351-95-6	C ₁₇ H ₂₄ N ₂ O ₅	336.38	
Ropinirole Open Ring Nitro Impurity	2-[2-(Dipropylamino)ethyl]-6-nitrophenyl acetic acid hydrochloride ;	91374-25-3	C ₁₆ H ₂₅ ClN ₂ O ₄	344.83	
Ropinirole N-Despropyl Impurity	4-[2-(Propylamino)ethyl]-2-indolinone monohydrochloride ;	173990-76-6	C ₁₃ H ₁₉ ClN ₂ O	254.76	

Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
N,N-Dipropyl-2-Methyl-3-Nitrophenylethana mine	N,N-Dipropyl-2-Methyl-3-nitrophenylethanaMine;N,N-Dipropyl-2-methyl-3-nitrophenylethanamine;Benzeneethanamine,2-methyl-3-nitro-N,N-dipropyl;N,N-Dipropyl-2-(2-methyl-3-nitrophenyl)ethylamine;[2-(2-Methyl-3-nitro-phenyl)-ethyl]-dipropyl	91374-23-1	C15H24N2O2	264.36	
ROIIVACAINE					
Ropivacaine RC A	2,6-Dimethylbenzenamine Hydrochloride ; 2,6-Dimethylaniline Hydrochloride.	21436-98-6	C8H12ClN	157.64	
Ropivacaine EP Impurity B	Ropivacaine BP Impurity B ; Ropivacaine N-Despropyl Analog ; (?)-(2S)-N-(2,6-Dimethylphenyl)piperidine-2-carboxamide ;	27262-40-4	C14H20N2O	232.32	 C ₁₄ H ₂₀ N ₂ O Mol. Wt: 232.32
ROCURONIUM					
Rocuronium Impurity B	3-Acetyl Rocuronium Bromide ; 1-[3?,17?-bis(Acetyloxy)-2?-(morpholin-4-yl)-5?-androstan-16?-yl]-1-(prop-2-enyl)pyrrolidinium bromide ;	122483-73-2	C34H55N2O5	571.81	 C ₃₄ H ₅₅ N ₂ O ₅ ⁺ Mol. Wt.: 571.81

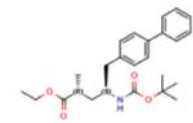
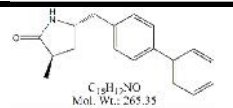
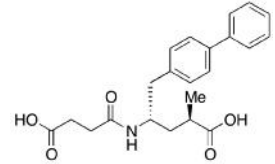
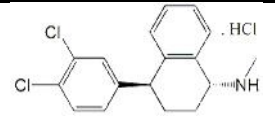
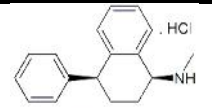
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Rocuronium Impurity C	17-Desacetyl Rocuronium Bromide ; 1-[3?,17?-Dihydroxy-2?-(morpholin-4-yl)-5?-androstan-16?-yl]-1-(prop-2-enyl)pyrrolidinium bromide ;	119302-86-2	C30H51N2O3	487.74	 C ₃₀ H ₅₁ N ₂ O ₃ ⁺ Mol. Wt.: 487.74
Rocuronium Impurity D	3-Acetyl-17-desacetyl Rocuronium Bromide ; 1-[3?-(Acetyloxy)-17?-hydroxy-2?-(morpholin-4-yl)-5?-androstan-16?-yl]-1-(prop-2-enyl)pyrrolidinium bromide ;	1190105-63-5	C32H53N2O4	529.77	 C ₃₂ H ₅₃ N ₂ O ₄ ⁺ Mol. Wt.: 529.77
Rocuronium Impurity E	2-Pyrrolidinyl Desmorpholinyl Rocuronium Bromide ; 1-[17?-(Acetyloxy)-3?-hydroxy-2?-(pyrrolidin-1-yl)-5?-androstan-16?-yl]-1-(prop-2-enyl)pyrrolidinium bromide ;	1190105-65-7	C32H53N2O3	513.77	 C ₃₂ H ₅₃ N ₂ O ₃ ⁺ Mol. Wt.: 513.77
Rocuronium Impurity F	2-Pyrrolidinyl-3-Acetyl Desmorpholinyl Rocuronium Bromide ; 1-[3?,17?-bis(Acetyloxy)-2?-(pyrrolidin-1-yl)-5?-androstan-16?-yl]-1-(prop-2-enyl)pyrrolidinium bromide ;	1190105-66-8	C34H55N2O4	555.81	 C ₃₄ H ₅₅ N ₂ O ₄ ⁺ Mol. Wt.: 555.81
Rocuronium Impurity G	(2b,3a,5a,16b,17b)-2-(4-Morpholinyl)-16-(1-pyrrolidinyl)androstane-3,17-diol.	119302-20-4	C27H46N2O3	446.66	
S	SALMETEROL				

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Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Salmeterol EP Impurity A	1-[4-Hydroxy-3-(hydroxymethyl)phenyl]-2-[(4-phenylbutyl)amino] ethanol formate ;	1798014-51-3	C ₂₀ H ₂₇ NO ₅	361.43	
Salmeterol EP Impurity D	1-[4-[2-hydroxy-2-[4-hydroxy-3-(hydroxymethyl)phenyl]ethoxy]-3-(hydroxy methyl)phenyl]-2-[[6-(3-phenylbutoxy)hexyl]amino]ethanol ;	1391052-04-2	C ₃₄ H ₄₇ NO ₇	581.74	
Salmeterol EP Impurity E	Salmeterol EP Impurity E ; Salmeterol USP Related Compound B ; 1-[4-Hydroxy-3-(hydroxymethyl)phenyl]-2-[[6-(1-methyl-3-phenylpropoxy) hexyl] amino]ethanol ;	108928-81-0	C ₂₅ H ₃₇ NO ₄	415.57	
Salmeterol EP Impurity F	Salmeterol EP Impurity F (Formate Salt) ; Salmeterol Deoxy Impurity (USP) ; 1-(4-Hydroxy-3-methylphenyl)-2-[[6-(4-phenylbutoxy)hexyl]amino]ethanol formate ;	1391054-40-2 (base)	C ₂₆ H ₃₉ NO ₅	445.59	
Salmeterol EP Impurity G	1-[4-hydroxy-3-[[[2-hydroxy-2-[4-hydroxy-3-(hydroxymethyl)phenyl]ethyl] [6-(4-phenylbutoxy)hexyl]amino]methyl]phenyl]-2-[[6-(4-phenylbutoxy)hexyl] amino]ethanol ;	1391051-88-9	C ₅₀ H ₇₂ N ₂ O ₇	813.12	
SACUBITRIL					
Sacubitril Impurity 1	2R,4S)-5-([1,1'-biphenyl]-4-yl)-4-amino-2-Methylpentanoic acid hydrochloride;(2R,4S)-4-Amino-4-([1,1'-biphenyl]-4-ylmethyl)-2-methylbutanoic acid hydrochloride(1:1);LCA696 impurity;LCZ701	1038924-71-8	C ₁₈ H ₂₂ ClNO ₂	319.83	

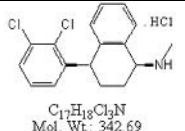
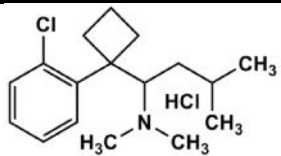
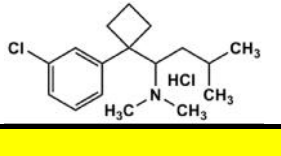
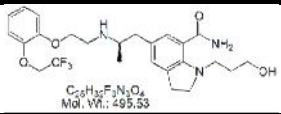
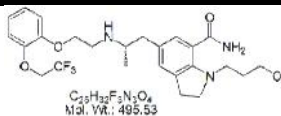
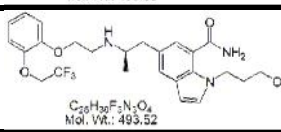
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Sacubitril Impurity 2	ethyl (2R,4S)-2-((tert-butoxy)carbonyl)amino-5-methyl-4-phenylphenylpentanoate ; (2R,4S)-ethyl 5-([1,1'-biphenyl]-4-yl)-4-((tert-butoxycarbonyl)amino)-2-methylpentanoate;	149709-60-4	C25H33NO4	411.53	
Sacubitril Impurity 3	Sacubitril (3R,5S)-Pyrrolidinone Impurity ;(3R,5S)-5-[(Biphenyl-4-yl)methyl]-3-methylpyrrolidin-2-one ;	1038924-70-7	C18H19NO	265.35	 C ₁₈ H ₁₉ NO Mol. Wt.: 265.35
Sacubitril Impurity 4	Desethyl Sacubitril;[S-(R*,S*)]-?-[3-Carboxy-1-oxopropyl)amino]-?-methyl-[1,1'-Biphenyl]-4-pentanoic Acid; (2R,4S)-4-[(3-Carboxy-1-oxopropyl)amino]-4-[(p-phenylphenyl)methyl]-2-methylbutanoic Acid; (2R,4S)-5-(Biphenyl-4-yl)-4-[(3-carboxypropionyl)amino]-2-methylpentanoic Acid; Sacubitrilat; LBQ 657	149709-44-4	C22H25NO5	383.44	
SERTRALINE					
Sertraline EP Impurity A	Sertraline BP Impurity A ; Sertraline USP Related Compound A ; Sertraline trans-Isomer ; trans-4-(3,4-Dichlorophenyl)-1,2,3,4-tetrahydro-N-methyl -1-naphthalen amine hydrochloride ;	79836-45-6	C17H18Cl3N	342.69	 and enantiomer C ₁₇ H ₁₈ Cl ₃ N Mol. Wt.: 342.69
Sertraline EP Impurity B	cis-4-Phenyl-1,2,3,4-tetrahydro-N-methyl -1-naphthalen amine hydrochloride ;	52758-05-1	C17H20ClN	273.80	 and enantiomer C ₁₇ H ₂₀ ClN Mol. Wt.: 273.80

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Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Sertraline EP Impurity C	Sertraline 3-Deschloro Impurity ;Sertraline 4-Chlorophenyl Analog ; 3-Deschloro Sertraline HCl ; cis-(1S)-N-Methyl-4-(4-chloro phenyl)-1,2,3,4-tetrahydro-1-naphthalenamine hydrochloride ;	79646-00-7	C ₁₇ H ₁₉ ClN	308.25	<p>C₁₇H₁₉Cl₂N Mol. Wt.: 308.25</p>
Sertraline Impurity D	Sertraline impurity D;4-Deschloro Sertraline;(rac,syn)-4-Deschloro-sertraline;(1S,4S)-4-(3-chlorophenyl)-N-methyl-1,2,3,4- tetrahydronaphthalen-1-amine.	871838-58-3	C ₁₇ H ₁₈ ClN	271.78	
Sertraline EP Impurity E	Sertraline BP Impurity E ; (R)-(-)-Mandelic Acid ; (2R)-(-)-Hydroxybenzeneacetic Acid ; D-Mandelic Acid ;	611-71-2	C ₈ H ₈ O ₃	152.15	<p>C₈H₈O₃ Mol. Wt.: 152.15</p>
Sertraline EP Impurity F	Sertraline BP Impurity F ; Sertralone (USP) ; Sertraline Tetralone (R)-Isomer ; (R)-4-(3,4-Dichlorophenyl)-1-tetralone ;	155748-61-1	C ₁₆ H ₁₂ Cl ₂ O	291.17	<p>C₁₆H₁₂Cl₂O Mol. Wt.: 291.17</p>
Sertraline EP Impurity G	Sertraline BP Impurity G ; Sertraline Enantiomer ; Sertraline (1R,4R)-cis-Isomer ; (1R,4R)-4-(3,4-Dichlorophenyl)-N-methyl-1,2,3,4-tetrahydronaphthalen-1-amine hydrochloride;	79617-95-1	C ₁₇ H ₁₈ Cl ₃ N	342.69	<p>C₁₇H₁₈Cl₃N Mol. Wt.: 342.69</p>
Sertraline Dimethylamino Analog	N-Methyl Sertraline HCl ; (1S,4S)-4-(3,4-Dichlorophenyl)-N,N-dimethyl-1,2,3,4-tetrahydronaphthalen-1-amine hydrochloride ;	79836-76-3 (HCl salt) ; 107508-17-8	C ₁₈ H ₂₀ Cl ₃ N	356.72	<p>C₁₈H₂₀Cl₃N Mol. Wt.: 356.72</p>

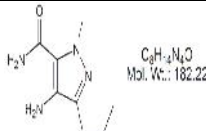
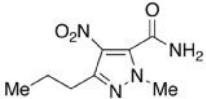
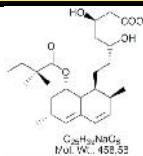
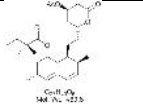
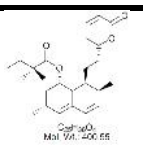
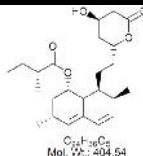
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Sertraline 2,3-Dichloro Isomer	Sertraline 2,3-Dichloro Analog (HCl Salt) ; 2,3-Isosertraline HCl (USP) ; (1S,4R)-4-(2,3-Dichlorophenyl)-1,2,3,4-tetrahydro-N-methyl naphthalen amine hydrochloride ;	1198084-29-5	C ₁₇ H ₁₈ Cl ₂ N	342.69	 <p>C₁₇H₁₈Cl₂N Mol. Wt.: 342.69</p>
SIBUTRAMINE					
Sibutramine Impurity A	4-Deschloro-2-chloro Sibutramine Hydrochloride; N-{1-[1-(2-Chlorophenyl)cyclobutyl]-3-methylbutyl}-N,N-dimethylamine Hydrochloride; USP Sibutramine Related Compound A:	NA	C ₁₇ H ₂₇ Cl ₂ N	316.31	
Sibutramine Impurity B	4-Deschloro-3-chloro Sibutramine Hydrochloride; N-{1-[1-(4-Chlorophenyl)cyclobutyl]pentyl}-N,N-dimethylamine Hydrochloride; USP Sibutramine Related Compound B:	NA	C ₁₇ H ₂₁ Cl ₂ N	316.31	
SILODOSIN					
Silodosin	1-(3-Hydroxypropyl)-5-[(2R)-{(2-[2-(2,2,2-trifluoroethoxy)phenoxy] ethyl) amino)propyl]indoline-7-carboxamide ;	60970-54-7	C ₂₅ H ₃₂ F ₃ N ₃ O ₄	495.53	 <p>C₂₅H₃₂F₃N₃O₄ Mol. Wt.: 495.53</p>
Silodosin (S)-Isomer	1-(3-Hydroxypropyl)-5-[(2S)-{(2-[2-(2,2,2-trifluoroethoxy)phenoxy] ethyl) amino)propyl]indoline-7-carboxamide ;	160970-54-7	C ₂₅ H ₃₂ F ₃ N ₃ O ₄	495.53	 <p>C₂₅H₃₂F₃N₃O₄ Mol. Wt.: 495.53</p>
Silodosin Dehydro Impurity	(R)-1-(3-Hydroxypropyl)-5-(2-(2-(2,2,2-trifluoroethoxy)phenoxy)ethylamino)propyl)-1H-indole-7-carboxamide ;	175870-21-0	C ₂₅ H ₃₀ F ₃ N ₃ O ₄	493.52	 <p>C₂₅H₃₀F₃N₃O₄ Mol. Wt.: 493.52</p>
SILDENAFIL					

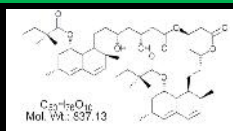
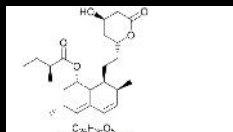
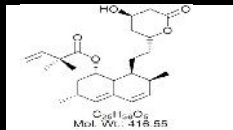
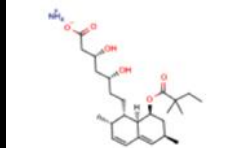
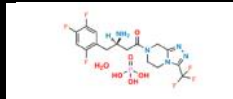
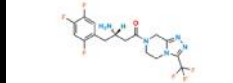
Impurity Catalogue

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Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Sildenafil EP Impurity A	Sildenafil Impurity A ; Sildenafil USP RC A ; Sildenafil Isobutyl Analog ; 5-[2-Ethoxy-5-[(4-methyl-4-oxido-1-piperazinyl)sulfonyl]phenyl]-1,6-dihydro-1-methyl-3-(2-methylpropyl)-7H-pyrazolo[4,3-d]pyrimidin-7-one ;	NA	C23H32N6O4S	488.6	 C ₂₃ H ₃₂ N ₆ O ₄ S Mol. Wt.: 488.6
Sildenafil EP Impurity B	Sildenafil Impurity B ; Sildenafil N-Oxide ; 5-[2-Ethoxy-5-[(4-methyl-4-oxido-1-piperazinyl)sulfonyl]phenyl]-1,6-dihydro-1-methyl-3-propyl-7H-pyrazolo[4,3-d]pyrimidin-7-one ;	1094598-75-0	C22H30N6O5S	490.58	 C ₂₂ H ₃₀ N ₆ O ₅ S Mol. Wt.: 490.58
Sildenafil EP Impurity C	Sildenafil Impurity C ; O-Desethyl Sildenafil ; 5-[2-Hydroxy-5-(4-methylpiperazinylsulphonyl)phenyl]-1-methyl-3-n-propyl-1,6-dihydro-7H-pyrazolo[4,3-d]pyrimidin-7-one ;	139755-91-2	C20H26N6O4S	446.52	 C ₂₀ H ₂₆ N ₆ O ₄ S Mol. Wt.: 446.52
Sildenafil EP Impurity D	Sildenafil Impurity D ; Desmethylpiperazinyl Sildenafil Sulfonic Acid ; 3-(4,7-Dihydro-1-methyl-7-oxo-3-propyl-1H-pyrazolo[4,3-d]pyrimidin-5-yl)-4-ethoxybenzenesulfonic acid ;	1357931-55-5	C17H20N4O5S	392.43	 C ₁₇ H ₂₀ N ₄ O ₅ S Mol. Wt.: 392.43
Sildenafil Impurity F	4-(hydroxyamino)-1-methyl-3-propyl-1H-pyrazole-5-carboxamide.	NA	C8H14N4O2	198.22	 C ₈ H ₁₄ N ₄ O ₂ Mol. Wt.: 198.22
Sildenafil N-Desmethyl Metabolite	5-[2-Ethoxy-5-(piperazin-1-yl)sulfonylphenyl]-1-methyl-3-propyl-4H-pyrazolo[5,4-e]pyrimidin-7-one ;	139755-82-1	C21H28N6O4S	460.55	 C ₂₁ H ₂₈ N ₆ O ₄ S Mol. Wt.: 460.55
Sildenafil Acid Impurity	1-methyl-4-nitro-3-propyl-1H-pyrazole-5-carboxylic acid.	139756-00-6	C8H11N3O4	213.19	 C ₈ H ₁₁ N ₃ O ₄ Mol. Wt.: 213.19

Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Sildenafil Amino Amide Impurity	4-Amino-1-methyl-3-propylpyrazole-5-carboxamide ;	139756-02-8	C ₈ H ₁₄ N ₄ O	182.22	 C ₈ H ₁₄ N ₄ O Mol. Wt.: 182.22
1-Methyl-4-Nitro-3-Propylpyrazole-5-Carboxamide	1-Methyl-4-nitro-3-propyl-1H-pyrazole-5-carboxamide; Sildenafil Amide Impurity.	139756-01-7	C ₈ H ₁₂ N ₄ O ₃	212.21	
SIMVASTATIN					
Simvastatin EP Impurity A	Simvastatin EP Impurity A ; Simvastatin USP RC A ; Simvastatin Sodium ; Simvastatin Acid Sodium Salt ; Simvastatin Hydroxy Acid Sodium Salt ; Tenvastatin Sodium Salt ;	101314-97-0	C ₂₅ H ₃₉ NaO ₆	458.56	 C ₂₅ H ₃₉ NaO ₆ Mol. Wt.: 458.56
Simvastatin EP Impurity B	Simvastatin USP RC B ; Simvastatin Acetate Ester ; (1S,3R,7S,8S,8aR)-8-[2-[(2R,4R)-4-(acetyloxy)-6-oxotetrahydro-2H-pyran-2-yl]ethyl]-3,7-dimethyl-1,2,3,7,8,8a-hexahydronaphthalen-1-yl 2,2-dimethylbutanoate ;	145576-25-6	C ₂₇ H ₄₀ O ₆	460.6	 C ₂₇ H ₄₀ O ₆ Mol. Wt.: 460.6
Simvastatin EP Impurity C	Simvastatin USP RC C ; 2,3-Anhydro Simvastatin ; Dehydro Simvastatin ; Simvastatin Dehydration Product ; (1S,3R,7S,8S,8aR)-3,7-Dimethyl-8-[2-[(2R)-6-oxo-3,6-dihydro-2H-pyran-2-yl]ethyl]-1,2,3,7,8,8a-hexahydronaphthalen-1-yl 2,2-dimethylbutanoate ;	210980-68-0	C ₂₅ H ₃₆ O ₄	400.55	 C ₂₅ H ₃₆ O ₄ Mol. Wt.: 400.55
Simvastatin EP Impurity F	Simvastatin USP RC F ; epi-Lovastatin ; Lovastatin epimer ; (1S,3R,7S,8S,8aR)-8-[2-[(2R,4R)-4-Hydroxy-6-oxotetrahydro-2H-pyran-2-yl]ethyl]-3,7-dimethyl-1,2,3,7,8,8a-hexahydronaphthalen-1-yl (2R)-2-methylbutanoate ;	79952-44-6	C ₂₄ H ₃₆ O ₅	404.54	 C ₂₄ H ₃₆ O ₅ Mol. Wt.: 404.54

Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Simvastatin EP Impurity D	Simvastatin EP Impurity D ; Simvastatin USP RC D ; Simvastatin Dimer ; (3R,5R)-((2R,4R)-2-(2-((1S,2S,6R,8S)-8-(2,2-Dimethylbutanoyloxy)-2,6-dimethyl-1,2,6,7,8,8a-hexahydronaphthalen-1-yl)ethyl)-6-oxo-tetrahydro-2H-pyran-4-yl) 7-((2S,6R,8S)-8-(2,2-dimethylbutanoyloxy)-2,6-dimethyl-1,2,6,7,8,8a-hexahydronaphthalen-1-yl)-3,5-dihydroxyheptanoate ;	476305-24-5	C50H76O10	837.13	 C ₅₀ H ₇₆ O ₁₀ Mol. Wt.: 837.13
Simvastatin EP Impurity E	Simvastatin USP RC E ; Lovastatin ; Desmethyl Simvastatin ; (1S,3R,7S,8S,8aR)-8-[2-[(2R,4R)-4-hydroxy-6-oxotetrahydro-2H-pyran-2-yl]ethyl]-3,7-dimethyl-1,2,3,7,8,8a-hexahydronaphthalen-1-yl-(2S)-2-methylbutanoate ;	75330-75-5	C24H36O5	404.54	 C ₂₄ H ₃₆ O ₅ Mol. Wt.: 404.54
Simvastatin EP Impurity G	Simvastatin USP RC G ; Simvastatin-3-en ; Methylene simvastatin ; 2''-Desethyl-2''-vinyl simvastatin ; (1S,3R,7S,8S,8aR)-8-[2-[(2R,4R)-4-Hydroxy-6-oxotetrahydro-2H-pyran-2-yl]ethyl]-3,7-dimethyl-1,2,3,7,8,8a-hexahydronaphthalen-1-yl 2,2-dimethylbut-3-enoate ;	1449248-72-9	C25H36O5	416.55	 C ₂₅ H ₃₆ O ₅ Mol. Wt.: 416.55
Simvastatin Hydroxy Acid Ammonium Salt	(?R,?R,1S,2S,6R,8S,8aR)-8-(2,2-Dimethyl-1-oxobutoxy)-1,2,6,7,8,8a-hexahydro-?,?-dihydroxy-2,6-dimethyl-1-naphthaleneheptt; Simvastatin Ammonium Salt;	139893-43-9	C25H43NO6	453.61	
SITAGLIPTIN					
Sitagliptin	(R)-3-amino-1-(3-(trifluoromethyl)-5,6-dihydro-[1,2,4]triazolo[4,3-a]pyrazin-7(8H)-yl)-4-(2,4,5-trifluorophenyl)butan-1-one.	486460-32-6	C16H15F6N5O. H3O4P . H2O	407.32. 97.99 .18.2	
Sitagliptin EP Impurity A	(S)-Sitagliptinlsoomer Phosphate ; (S)-4-Oxo-4-[3-(trifluoromethyl)-5,6-dihydro[1,2,4]triazolo[4,3-a]pyrazin-7(8H)-yl]-1-(2,4,5-trifluorophenyl)butan-2-amine phosphate ;	823817-58-9	C16H15F6N5O	407.32	

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Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Sitagliptin EP Impurity B	Sitagliptin 4-Desfluoro Impurity ; (R)-4-Oxo-4-[3-(trifluoromethyl)-5,6-dihydro[1,2,4]triazolo[4,3-a]pyrazin-7(8H)-yl]-1-(2,5-difluorophenyl)butan-2-amine phosphate ;	1345822-87-8	C ₁₆ H ₁₆ F ₅ N ₅ O	389.33	
Sitagliptin EP Impurity C	Sitagliptin 5-Desfluoro Impurity ; (R)-4-Oxo-4-[3-(trifluoromethyl)-5,6-dihydro[1,2,4]triazolo[4,3-a]pyrazin-7(8H)-yl]-1-(2,4-difluorophenyl)butan-2-amine ;	1345822-86-7	C ₁₆ H ₁₆ F ₅ N ₅ O	389.33	
Sitagliptin Impurity E HCl (Sitagliptin S-Isomer HCl)	(S)-3-amino-1-(3-(trifluoromethyl)-5,6-dihydro-[1,2,4]triazolo[4,3-a]pyrazin-7(8H)-yl)-4-(2,4,5-trifluorophenyl)butan-1-one hydrochloride;	NA	C ₁₆ H ₁₅ F ₆ N ₅ O. HCl	407.32 36.46	
Sitagliptin Acid Impurity	3-Amino-4-(2,4,5-trifluorophenyl)butanoic acid;	936630-57-8;1204818-19-8	C ₁₀ H ₁₀ F ₃ NO ₂ .HCl	233.19	
Sitagliptin Ketoamide Impurity	Sitagliptin Ketoamide Impurity ; (2Z)-4-Oxo-4-[3-(trifluoromethyl)-5,6-dihydro-[1,2,4] triazolo[4,3-a]pyrazine-7(8H)-yl]-1-(2,4,5-trifluorophenyl)butan-2-one ;	764667-65-4	C ₁₆ H ₁₂ F ₆ N ₄ O ₂	406.28	
Sitagliptin Impurity 1	(3R)-3-(N-(tert-butoxycarbonyl)amino)-4-(2,3,5-trifluorophenyl)butanoic acid;	NA	C ₁₅ H ₁₈ F ₃ NO ₄	333.3	

Impurity Catalogue

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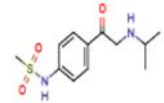
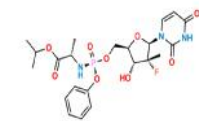
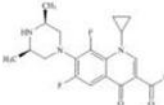
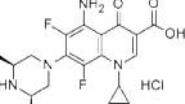
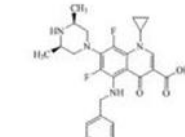
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Sitagliptin Impurity 2	(3R)-3-[(tert-Butoxycarbonyl)amino]-4-(3,4,5-trifluorophenyl)butanoic acid	NA	C ₁₅ H ₁₈ F ₃ NO ₄	333.3	
Sitagliptin Impurity 3	(3R)-3-[(tert-Butoxycarbonyl)amino]-4-(2,4,6-trifluorophenyl)butanoic acid;	NA	C ₁₅ H ₁₈ F ₃ NO ₄	333.3	
Sitagliptin Impurity 4	(3R)-3-[(tert-Butoxycarbonyl)amino]-4-(2,3,6-trifluorophenyl)butanoic acid;	NA	C ₁₅ H ₁₈ F ₃ NO ₄	333.3	
Sitagliptin Impurity 5	(3R)-3-[(tert-Butoxycarbonyl)amino]-4-(2,3,4-trifluorophenyl)butanoic acid;	NA	C ₁₅ H ₁₈ F ₃ NO ₄	333.3	
Sitagliptin Impurity 6	(3R)-3-[(tert-Butoxycarbonyl)amino]-4-(2,3-difluorophenyl)butanoic acid;	NA	C ₁₅ H ₁₈ F ₃ NO ₄	333.3	
Sitagliptin Impurity 7	(3R)-3-[(tert-Butoxycarbonyl)amino]-4-(3,4-difluorophenyl)butanoic acid;	NA	C ₁₅ H ₁₉ F ₂ NO ₄	315.31	
Sitagliptin Impurity 8	(3R)-3-[(tert-Butoxycarbonyl)amino]-4-(3,5-difluorophenyl)butanoic acid;	NA	C ₁₅ H ₁₉ F ₂ NO ₄	315.31	

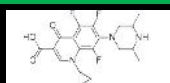
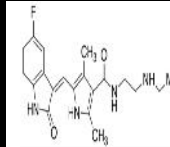
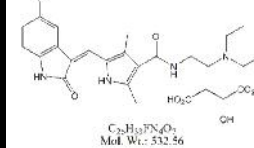
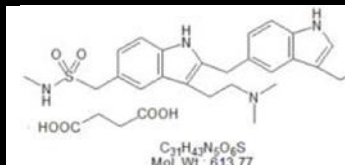
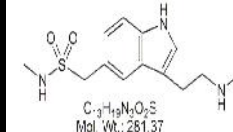
Impurity Catalogue

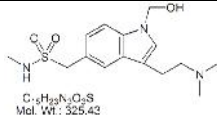
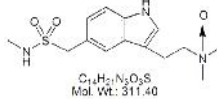
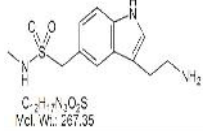
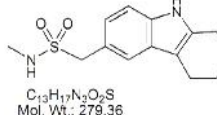
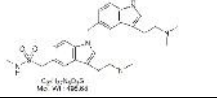
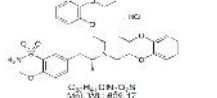
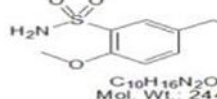
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Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Sitagliptin Impurity 9	(1Z)-1-(5,5-dimethyl-1,3-dioxan-2-yl)-3-(2,4,5-trifluorophenyl)prop-1-en-2-ol;	NA	C ₁₅ H ₁₇ F ₃ O ₃	302.29	
Sitagliptin Impurity 10	2,4,5-Trifluorobenzeneacetic Acid;(2,4,5-Trifluorophenyl)acetic Acid	209995-38-0	C ₈ H ₅ F ₃ O ₂	190.12	
N-Boc-Sitagliptin	N-[(1R)-3-[5,6-Dihydro-3-(trifluoromethyl)-1,2,4-triazolo[4,3-a]pyrazin-7(8H)-yl]-3-oxo-1-[(2,4,5-trifluorophenyl)methyl]propyl]carbamic Acid 1,1-Dimethylethyl Ester; [(1R)-3-[5,6-Dihydro-3-(trifluoromethyl)-1,2,4-triazolo[4,3-a]pyrazin-7(8H)-yl]-3-oxo-1-[(2,4,5-trifluorophenyl)methyl]propyl]carbamic Acid 1,1-Dimethylethyl Ester	486460-23-5	C ₂₁ H ₂₃ F ₆ N ₅ O ₃	507.43	
6-Aminocaproic Acid Dimer	Bis-?-aminocaproic Acid; N-(6-?-Aminocaproyl)-6-aminocaproic Acid; 6-Aminohexanoic Acid Dimer; 6-[(6-Amino-1-oxohexyl)amino]hexanoic Acid;	2014-58-6	C ₁₂ H ₂₂ N ₂ O ₄	244.33	
SOTALOL					
Sotalol Impurity A	Methanesulfonamide, N-[4-[2-?[(1-Methylethyl)amino]ethyl]phenyl]?-; N-[4-[2-[(1-Methylethyl)amino]ethyl]phenyl]methanesulfonamide; Deoxysotalol	16974-42-8	C ₁₂ H ₂₀ N ₂ O ₂ S	256.36	

Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Sotalol Impurity B	N-{4-[(1-Methylethyl)amino]acetyl}phenyl}methanesulfonamide	60735-85-5	C ₁₂ H ₁₈ N ₂ O ₃ S	270.35	
SOFOSBUVIR					
RP-Isomer Of Sofosbuvir	isopropyl ((R)-(((2R,3R,4R,5R)-5-(2,4-dioxo-3,4-dihydropyrimidin-1(2H)-yl)-4-fluoro-3-hydroxy-4-methyltetrahydrofuran-2-yl)methoxy)(phenoxy)phosphoryl)-L-alaninate.	1064684-44-1	C ₂₂ H ₂₉ N ₃ O ₉ P	529.46	
SPARFLOXACIN					
Sparfloxacin Impurity 3	2,6-Dimethylpiperazine; 1-Cyclopropyl-6,7,8-trifluoro-4-oxo-1,4-dihydroquinoline-3-carboxylic acid	103460-90-8	C ₁₉ H ₂₁ F ₂ N ₃ O ₃	377.39	
Sparfloxacin Impurity 5	PD-131501; SPARFLOXACIN; SparfloxacinHCl; SparfloxacinSpara; Sparfloxacinhydrochloride; 5-AMINO-1-CYCLOHEXYL-7-(CIS-3,5-DIMETHYLPIPERAZINO)-6,8-DIFLUORO-1,4-DIHYDRO-4-OXO-3-QUINOLINECARBOXYLIC ACID; 5-Amino-1-cyclopropyl-7-(3,5-dimethyl-1-piperazinyl)-6,8-difluoro-1,4-dihydro-4-oxo-3-quinolinecarboxylic acid; 3-Quinolinecarboxylic acid, 5-amino-1-cyclopro	111542-93-9	C ₁₉ H ₂₂ F ₂ N ₄ O ₃	392.4	
Sparfloxacin Impurity 6	NA	132664-15-4	C ₂₆ H ₂₈ F ₂ N ₄ O ₃	482.53	

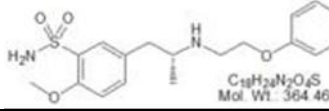
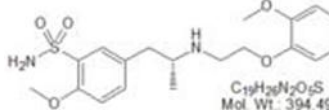
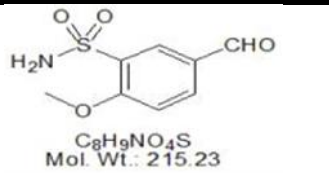
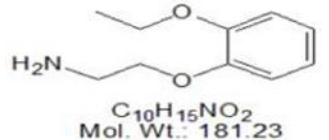
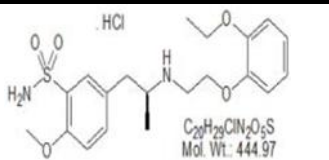
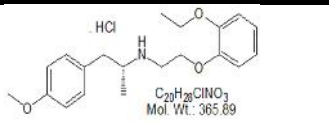
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
ORBIFLOXACIN	1-CYCLOPROPYL-7-(3,5-DIMETHYL-1-PIPERAZINYL)-5,6,8-TRIFLUORO-1,4-DIHYDRO-4-OXO-3-QUINOLINECARBOXYLIC ACID;1-CYCLOPROPYL-7-(3,5-DIMETHYL-PIPERAZIN-1-YL)-5,6,8-TRIFLUORO-4-OXO-1,4-DIHYDRO-QUINOLINE-3-CARBOXYLIC ACID	119354-10-8	C19H20F3N3O3	NA	
SUNITINIB					
N-Desethyl Sunitinib	N-[2-(Ethylamino)ethyl]-5-[(Z)-(5-fluoro-1,2-dihydro-2-oxo-3H-indol-3-ylidene)methyl]-2,4-dimethyl-1H-pyrrole-3-carboxamide;	356068-97-8	C20H23FN4O2	370.42	
Sunitinib Malate	N-[2-(Diethylamino)ethyl]-5-[(Z)-(5-fluoro-1,2-dihydro-2-oxo-3H-indol-3-ylidene)methyl]-2,4-dimethyl-1H-pyrrole-3-carboxamide malate ;	341031-54-7	C26H33FN4O7	532.56	 C ₂₆ H ₃₃ FN ₄ O ₇ Mol. Wt.: 532.56
SUMATRIPTAN					
Sumatriptan EP Impurity A	Sumatriptan BP Impurity A ; Sumatriptan USP Related Compound A ; [3-[2-(Dimethylamino)ethyl]-2-[[3-[2-(dimethylamino)ethyl]-1H-indol-5-yl] methyl]-1H-indol-5-yl]-N-methylmethanesulphonamide succinate ;	545338-89-4	C31H43N5O6S	613.77	 C ₃₁ H ₄₃ N ₅ O ₆ S Mol. Wt.: 613.77
Sumatriptan EP Impurity B	N-Desmethyl Sumatriptan ; N-Methyl[3-[2-(methylamino)ethyl]-1H-indol-5-yl] methane sulphon amide ;	88919-51-1	C13H19N3O2S	281.37	 C ₁₃ H ₁₉ N ₃ O ₂ S Mol. Wt.: 281.37


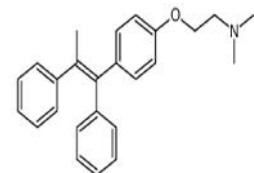
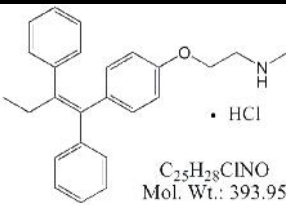
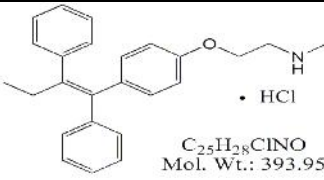
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Sumatriptan EP Impurity C	Sumatriptan BP Impurity C ; Sumatriptan USP Related Compound C ; [3-[2-(Dimethylamino)ethyl]-1-(hydroxymethyl)-1H-indol-5-yl]- N-methylmethanesulphonamide ;	NA	C15H23N3O3S	325.43	 C ₁₅ H ₂₃ N ₃ O ₃ S Mol. Wt.: 325.43
Sumatriptan EP Impurity D	Sumatriptan N-Oxide ; N,N-Dimethyl-2-[5-[(methylsulphamoyl)methyl]-1H-indol-3-yl] ethanamine N-oxide ;	212069-94-8	C14H21N3O3S	311.40	 C ₁₄ H ₂₁ N ₃ O ₃ S Mol. Wt.: 311.40
Sumatriptan EP Impurity E	: [3-(2-Aminoethyl)-1H-indol-5-yl]-N-methylmethanesulphonamide ; N,N-DiDesmethyl Sumatriptan ;	88919-22-6	C12H17N3O2S	267.35	 C ₁₂ H ₁₇ N ₃ O ₂ S Mol. Wt.: 267.35
Sumatriptan EP Impurity F	Sumatriptan BP Impurity F ; N-Methyl(2,3,4,9-tetrahydro-1H-pyrido[3,4-b]indol-6-yl) methane sulphonamide ;	NA	C13H17N3O2S	279.36	 C ₁₃ H ₁₇ N ₃ O ₂ S Mol. Wt.: 279.36
Sumatriptan EP Impurity H	Sumatriptan Dimer Impurity ; [3-[2-(Dimethylamino)ethyl]-1-[[3-[2-(dimethylamino)ethyl]-1H-indol-5-yl]methyl]-1H-indol-5-yl]-N-methylmethanesulphonamide ;	1391052-59-7	C27H37N5O2S	495.68	 C ₂₇ H ₃₇ N ₅ O ₂ S Mol. Wt.: 495.68
T	TEMSULOSIN				
Tamsulosin EP Impurity A	5-[(2R)-2-[bis[2-(2-Ethoxyphenoxy)ethyl]amino]propyl]-2-methoxy benzene sulfonamide HCl ;	918867-88-6	C30H41ClN2O7S (HCl salt) ; C30H40N2O7S	609.17 (HCl salt)	 C ₃₀ H ₄₁ ClN ₂ O ₇ S Mol. Wt.: 609.17
Tamsulosin EP Impurity B	5-[(2R)-2-Aminopropyl]-2-methoxybenzenesulfonamide HCl ;	112101-75-4	C10H16N2O3S (Base)	244.31	 C ₁₀ H ₁₆ N ₂ O ₃ S Mol. Wt.: 244.31

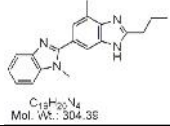
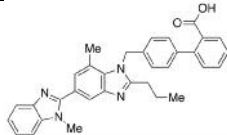
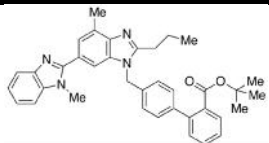
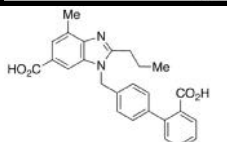
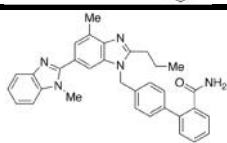
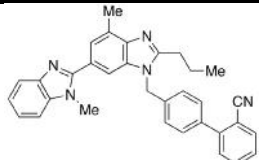
Impurity Catalogue

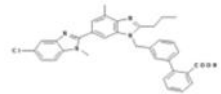
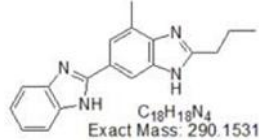
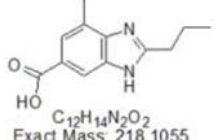
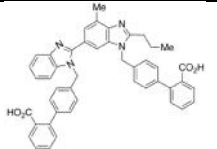
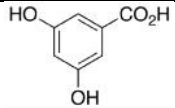
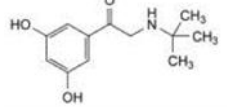
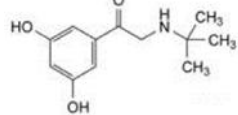
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Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Tamsulosin EP Impurity C	2-Methoxy-5-[(2R)-2-[(2-phenoxyethyl) amino] propyl] benzenesulfonamide ;	NA	C ₁₈ H ₂₄ N ₂ O ₄ S	364.46	
Tamsulosin EP Impurity D	2-Methoxy-5-[(2R)-2-[[2-(2-methoxyphenoxy)ethyl] amino] propyl] benzene sulfonamide ;	80223-96-7	C ₁₉ H ₂₆ N ₂ O ₅ S	394.49	
Tamsulosin EP Impurity E	5-Formyl-2-methoxybenzenesulfonamide ;	105764-07-6	C ₈ H ₉ NO ₄ S	215.23	
Tamsulosin EP Impurity F	2-(2-Ethoxyphenoxy)ethanamine ;	6781-17-5	C ₁₀ H ₁₅ NO ₂	181.23	
Tamsulosin EP Impurity G	5-[(2S)-2-[[2-(2-Ethoxyphenoxy)ethyl]amino]propyl]-2-methoxy benzene sulfonamide HCl ;	106463-19-8	C ₂₀ H ₂₈ N ₂ O ₅ S . HCl	408.51 (Base)	
Tamsulosin EP Impurity H	(2R)-N-[2-(2-Ethoxyphenoxy)ethyl]-1-(4-methoxyphenyl)propan-2-amine HCl ; (R)-Des(aminosulfonyl) Tamsulosin HCl ;	NA	C ₂₀ H ₂₇ NO ₃	329.43	

Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Tamsulosin EP Impurity I	1-(2-Bromoethoxy)-2-ethoxybenzene ;	3259-03-8	C ₁₀ H ₁₃ BrO ₂	245.11	 <p>C₁₀H₁₃BrO₂ Mol. Wt.: 245.11</p>
TOMOXIFEN					
Tamoxifen Impurity D	2-[4-[(E)-1,2-diphenylprop-1-enyl]phenoxy]-N,N-dimethylethanamine	31750-45-5	C ₂₅ H ₂₇ NO	357.48800	
Tamoxifen Impurity F	2-[4-[(Z)-1,2-Diphenylbut-1-enyl]phenoxy]-N-methylethanamine hydrochloride ;	15917-65-4	C ₂₅ H ₂₈ ClNO	393.95	 <p>• HCl C₂₅H₂₈ClNO Mol. Wt.: 393.95</p>
Tamoxifen N-Oxide	(2-[4-[(1Z)-1,2-diphenylbut-1-en-1-yl]phenoxy]ethyl)dimethylamine oxide.	75504-34-6	C ₂₆ H ₂₉ NO ₂	393.95	 <p>• HCl C₂₅H₂₈ClNO Mol. Wt.: 393.95</p>

Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
TELMISARTAN					
Telmisartan EP Impurity A	4-Methyl-6-(1-methyl-1H-1,3-benzodiazol-2-yl)-2-propyl-1H-1,3-benzodiazole	152628-02-9	C19H20N4	304.39	 C ₁₉ H ₂₀ N ₄ Mol. Wt.: 304.38
Telmisartan EP Impurity B	Telmisartan Isomer ; 4'-[(1,7'-Dimethyl-2'-propyl-1H,1'H-2,5'-bibenzo[d]imidazol-1'-yl)methyl]biphenyl-2-carboxylic acid	1026353-20-7	C33H30N4O2		
Telmisartan EP Impurity C	2-(4-{[4-Methyl-6-(1-methyl-1H-1,3-benzodiazol-2-yl)-2-propyl-1H-1,3-benzodiazol-1-yl] methyl}phenyl)benzoic acid t-butyl ester	144702-26-1	C37H38N4O2	570.72	
Telmisartan EP Impurity D	Telmisartan Diacid ; 6-Des(1-methyl-2-benzimidazolyl)-6-carboxy Telmisartan	884330-12-5	C26H24N2O4	428.17	
Telmisartan EP Impurity F	Telmisartan Amide ; 2-(4-{[4-Methyl-6-(1-methyl-1H-1,3-benzodiazol-2-yl)-2-propyl-1H-1,3-benzodiazol-1-yl] methyl}phenyl)benzamide	915124-86-6	C33H31N5O	513.63	
Telmisartan EP Impurity G	Telmisartan Cyano Analog ; 2-Descarboxy-2-Cyano Telmisartan ; 4'-[(1,4'-Dimethyl-2'-propyl[2,6'-bi-1H-benzimidazol]-1'-yl)methyl]-[1,1'-biphenyl]-2-carbonitrile	144702-27-2	C33H29N5	495.24	

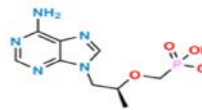
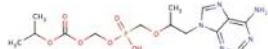
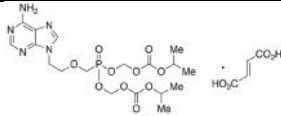
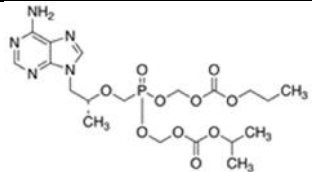
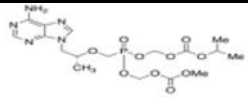
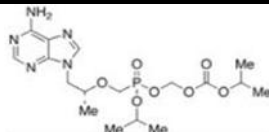
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Telmisartan Chloro Impurity	Telmisartan Chloro impurity	NA	C33H29ClN4O2	548.20	
Telmisartan DiBenzimidazole N-Desmethyl Impurity	7-Methyl-2-propyl-2,5-bi-1H-benzimidazole ;	884330-09-0	C18H18N4	290.1531	 C ₁₈ H ₁₈ N ₄ Exact Mass: 290.1531
Telmisartan Benzimidazole Acid	4-Methyl-2-propyl-6-benzimidazolecarboxylic acid ;	152628-03-0	C12H14N2O2	218.1055	 C ₁₂ H ₁₄ N ₂ O ₂ Exact Mass: 218.1055
Telmisartan Dimer Impurity	4,4'-bis(2-propyl-2,5-benzimidazol-1-yl)-1,1'-biphenyl-2-carboxylic Acid;	884330-14-7	C46H38N4O4	710.82	
TERBUTALINE					
Terbutaline Impurity A	?-Resorcylic Acid; 3,5-dihydroxybenzoic acid (alpha-resorcylic acid).	99-10-5	C7H6O4	154.12	
Terbutaline Impurity B	(4RS)-2-(1,1-dimethylethyl)-1,2,3,4-tetrahydroisoquinoline-4,6,8-triol.	NA	C13H21NO7S	335.37	
Terbutaline Impurity D	2-[benzyl-(1,1-dimethylethyl)amino]-1-(3,5-dihydroxyphenyl)ethanone.	NA	C19H23NO3	313.40	

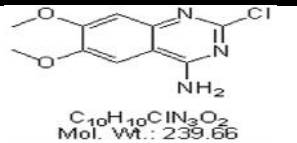
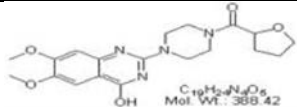
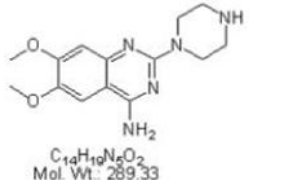
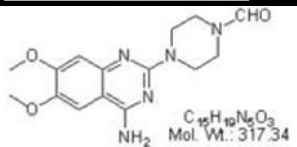
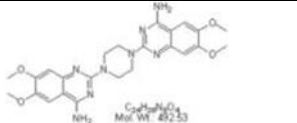
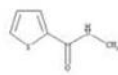
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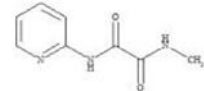
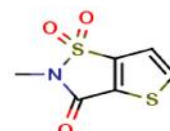
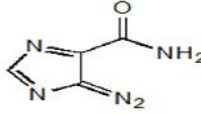
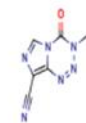
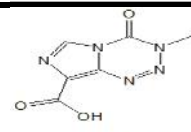
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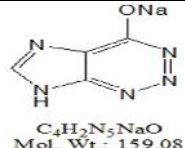
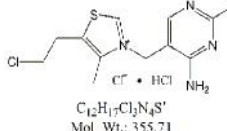
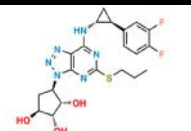
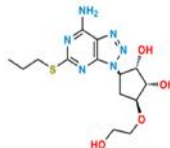
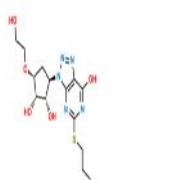
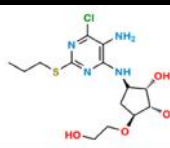


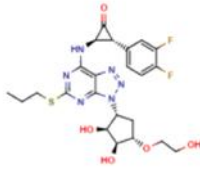
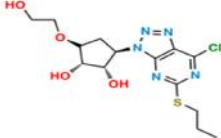
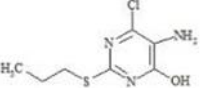
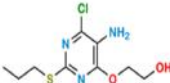

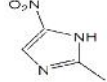
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Temazepam Impurity G	(5RS)-7-chloro-1,4-dimethyl-5-phenyl-4,5-dihydro-1H-1,4-benzodiazepine-2,3-dione.	93329-92-1	C ₁₇ H ₁₅ ClN ₂ O ₂	314.76	
TENOFOVIR					
Tenofovir	NA	107021-12-5	C ₉ H ₁₄ N ₅ O ₄ P	287.21	
Tenofovir Impurity K	NA	1246812-40-7	C ₂₁ H ₃₂ N ₅ O ₁₁ P	561.48	
Tenofovir Disoproxil Dimer	5-[[[(1R)-2-[6-[[[9-[(2R)-2,11-Dimethyl-5-[[[(1-methylethoxy)carbonyl]oxy]methoxy]-5-oxido-9-oxo-3,6,8,10-tetraoxa-5-phosphadodec-1-yl]-9H-purin-6-yl]amino]methyl]amino]-9H-purin-9-yl]-1-methylethoxy]methyl]-2,4,6,8-tetraoxa-5-phosphanonanedioic Acid 1,9-Bis(1-methylethyl) Ester 5-Oxide;	1093279-76-5	C ₃₉ H ₆₀ N ₁₀ O ₂₀ P ₂	1050.9	
Tenofovir Disoproxil Carbamate	5-[[[(1R)-1-Methyl-2-[6-[(isopropoxycarbonyl)amino]-9H-purin-9-yl]ethoxy]methyl]-2,4,6,8-tetraoxa-5-phosphanonanedioic Acid Bis(1-methylethyl) Ester 5-Oxide ; O, O-Bis(isopropoxycarbonyloxymethyl){(R)-1-[(6-isopropoxycarbonyl amino)-9H-purin-9yl] propan-2-yloxy}}methylphosphonate ; Tenofovir disoproxil carbamate;	1244022-54-5	C ₂₃ H ₃₆ N ₅ O ₁₂ P	605.53	

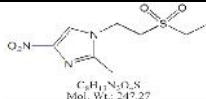
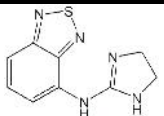
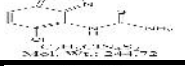
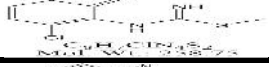
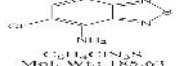
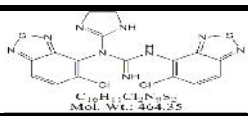
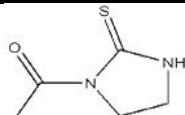
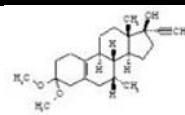
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Tenofovir (S)-Isomer	Tenofovir (S)-Isomer ; (S)-9-(2-Phosphonomethoxypropyl)adenine ;	147127-19-3	C9H14N5O4P	287.21	
Tenofovir Mono-POC PMPA	(8R)-9-(6-Amino-9H-purin-9-yl)-5-hydroxy-8-methyl-2,4,7-trioxo-5-phosphananoic Acid 1-Methylethyl Ester 5-Oxide; Tenofovir Monoisoproxil;	211364-69-1	C14H22N5O7P	403.33	
Desmethyl Tenofovir Disoproxil Fumarate	5-[[2-(6-Amino-9H-purin-9-yl)ethoxy]methyl]-2,4,6,8-Tetraoxa-5-phosphananedioic Acid Bis(1-methylethyl) Ester 5-Oxide (2E)-2-Butenedioate;	NA	C22H32N5O14P	621.49	
Tenofovir N-POC-POC PMPA	5-[[[(1R)-2-(6-Amino-9H-purin-9-yl)-1-methylethoxy]methyl]-2,4,6,8-tetraoxa-5-phosphananedioic Acid (1-methylethyl,propyl) Ester 5-Oxide	NA	C19H30N5O10P	519.44	
Tenofovir MOC-POC PMPA	5-[[[(1R)-2-(6-Amino-9H-purin-9-yl)-1-methylethoxy]methyl]-2,4,6,8-tetraoxa-5-phosphananedioic Acid (1-Methylethyl,methyl) Ester 5-Oxide	NA	C17H26N5O10P	606.45	
Tenofovir IPR-POC PMPA	Tenofovir Disoproxil Related CoM pound G; Mono-POC Isopropyl Tenofovir (Mixture of DiastereoMers);(8R)-9-(6-Amino-9H-purin-9-yl)-8-methyl-5-(1-methylethoxy)-2,4,7-trioxo-5-phosphananoic acid 1-methylethyl ester 5-oxide.	NA	C17H28N5O7P	445.40	

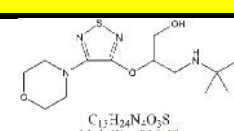
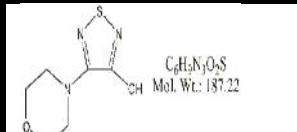
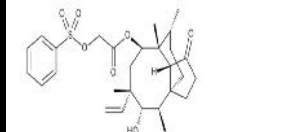
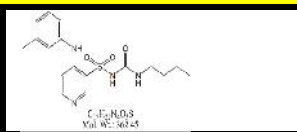
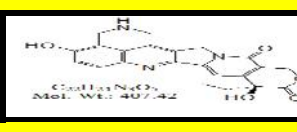
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
TERAZOSIN					
Terazosin EP Impurity A	4-Amino-2-chloro-6,7-dimethoxyquinazoline ;	23680-84-4	C10H10ClN3O2	239.66	 C ₁₀ H ₁₀ ClN ₃ O ₂ Mol. Wt.: 239.66
Terazosin EP Impurity B	Terazosin USP Related Compound B ; Terazosin 4-Hydroxy Analog ; 1-(4-Hydroxy-6,7-dimethoxyquinazolin-2-yl)-4-[[[(2RS)-tetrahydrofuran-2-yl]carbonyl]piperazine ;	NA	C19H24N4O5	388.42	 C ₁₉ H ₂₄ N ₄ O ₅ Mol. Wt.: 388.42
Terazosin EP Impurity C	Terazosin USP Related Compound A ; 4-Amino-6,7-dimethoxy-2-(1-piperazinyl)quinazoline ;	60547-97-9	C14H19N5O2	289.33	 C ₁₄ H ₁₉ N ₅ O ₂ Mol. Wt.: 289.33
Terazosin EP Impurity D	4-Amino-6,7-dimethoxy-2-(4-formyl-1-piperazinyl)quinazoline ;	NA	C15H19O3	317.34	 C ₁₅ H ₁₉ N ₄ O ₃ Mol. Wt.: 317.34
Terazosin EP Impurity E	Terazosin USP Related Compound C ; Prazosin EP Impurity E ; 2,2'-(1,4-Piperazinediyl)bis[6,7-dimethoxy-4-quinazolinamine] ;	102839-00-9 (Base) ; 104965-50-6 (HC	C24H28N8O4	492.53	 C ₂₄ H ₂₈ N ₈ O ₄ Mol. Wt.: 492.53
TENOXCAM					
Tenoxicam EP Impurity C	(N-Methylthiophene-2-carboxamide)	39880-77-8	C6H7NOS	141.19	

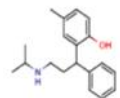
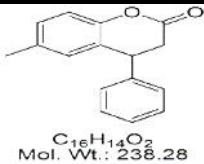
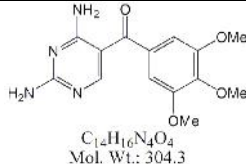
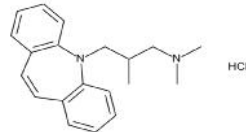
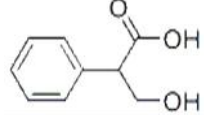
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Tenoxicam EP Impurity D	(N-Methyl-N'-(2-pyridyl)oxamide)	52781-01-8	C8H9N3O2	179.18	
Tenoxicam Impurity E	2-Methylthieno[2,3-d]isothiazol-3(2H)-one-1,1-dioxide.	94040-09-02	C6H5NO3S2	203.24	
TEMOZOLOMIDE					
Temozolomide USP R C A	4-Diazo-4H-imidazole-5-carboxamide ;	7008-85-7	C4H3N5O	137.10	 C ₄ H ₃ N ₅ O Mol. Wt.: 137.10
Temozolomide Cyano Impurity	Temozolomide Cyano Impurity;3-methyl-4-oxo-3,4-dihydroimidazo[5,1-d][1,2,3,5]tetrazine-imidazo[4,3-d][1,2,3,5]tetrazine-8carbonitrile ; 287964-59-4 ; Cyanotemozolomide.	114601-31-9	C6H4N6O	176.13	
Temozolomide Acid	3,4-Dihydro-3-methyl-4-oxo-imidazo[5,1-d][1,2,3,5]tetrazine-8-carboxylic acid ;	113942-30-6	C6H5N5O3	195.14	 C ₆ H ₅ N ₅ O ₃ Mol. Wt.: 195.14

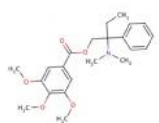
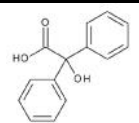
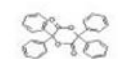
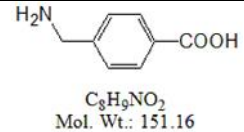

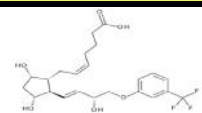
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Temozolomide 2-Azahypoxanthine Impurity	3,7-Dihydro-4H-imidazo [4,5-d] [1,2,3] triazin-4-one sodium salt ; 4a,5-Dihydro-4H-imidazo[4,5-d][1,2,3]triazin-4-one sodium salt ;	4656-86-4 (base) ; 1797817-35-6 (so)	C ₄ H ₂ N ₅ NaO	159.08	 C ₄ H ₂ N ₅ NaO Mol. Wt.: 159.08
Thiamine Impurity C	3-[(4-Amino-2-methylpyrimidin-5-yl)methyl]-5-(2-chloroethyl)-4-methylthiazolium	7275-24-3	C ₁₂ H ₁₇ Cl ₃ N ₄ S	355.71	 C ₁₂ H ₁₇ Cl ₃ N ₄ S ⁺ Mol. Wt.: 355.71
TICAGRELOR					
Ticagrelor Impurity G (Ticagrelor Metabolite)	(1S,2R,3S,4R)-4-(7-(((1R,2S)-2-(3,4-difluorophenyl)cyclopropyl)amino)-5-(propylthio)-3H-[1,2,3]triazolo[4,5-d]pyrimidin-3-yl)cyclopentane-1,2,3-triol;	220347-05-7	C ₂₁ H ₂₄ F ₂ N ₆ O ₃ S	478.52	
Ticagrelor Impurity 1	(1S,2S,3R,5S)-3-(7-amino-5-(propylthio)-3H-[1,2,3]triazolo[4,5-d]pyrimidin-3-yl)-5-(2-hydroxyethoxy)cyclopentane-1,2-diol;	NA	C ₁₄ H ₂₂ N ₆ O ₄ S	370.43	
Ticagrelor Impurity 2	(1S,2S,3R,5R)-3-(7-hydroxy-5-(propylthio)-3H-[1,2,3]triazolo[4,5-d]pyrimidin-3-yl)-5-(2-hydroxyethoxy)cyclopentane-1,2-diol;	NA	C ₁₄ H ₂₁ N ₅ O ₅ S	371.42	
Ticagrelor Impurity 3	(1S,2S,3S,5S)-3-((5-amino-6-chloro-2-(propylthio)pyrimidin-4-yl)amino)-5-(2-hydroxyethoxy)cyclopentane-1,2-diol;	NA	C ₁₄ H ₂₃ ClN ₄ O ₄ S	378.88	

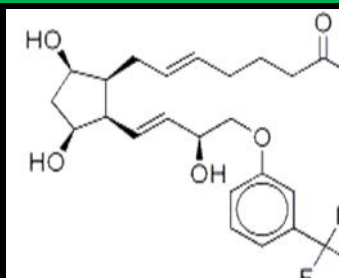
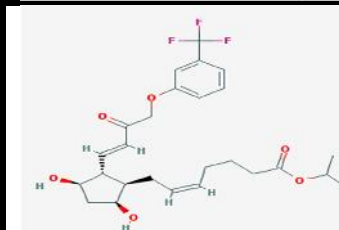
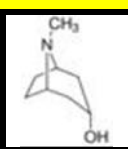


Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Ticagrelor Impurity 4	(2R,3R)-2-(3,4-difluorophenyl)-3-((3-((1R,2S,3S,4S)-2,3-dihydroxy-4-(2-hydroxyethoxy)cyclopentyl)-5-(propylthio)-3H-[1,2,3]triazolo[4,5-d]pyrimidin-7-yl)amino)cyclopropanone.	1644461-92-6	C23H26F2N6O5S	536.55	
Ticagrelor Impurity 5	(1S,2S,3R,5R)-3-(7-chloro-5-(propylthio)-3H-[1,2,3]triazolo[4,5-d]pyrimidin-3-yl)-5-(2-hydroxyethoxy)cyclopentane-1,2-diol;	NA	C14H20ClN5O4S	389.86	
Ticagrelor Impurity 6	5-amino-6-chloro-2-(propylthio)pyrimidin-4-ol;	NA	C7H10ClN3OS	219.69	
Ticagrelor Impurity 7	2-((5-amino-6-chloro-2-(propylthio)pyrimidin-4-yl)oxy)ethan-1-ol;	NA	C9H14ClN3O2S	263.75	
Ticagrelor Impurity 8	(1S,2S,5R)-3-(2-hydroxyethoxy)-5-(7-(methoxyamino)-5-(propylthio)-3H-[1,2,3]triazolo[4,5-d]pyrimidin-3-yl)cyclopentane-1,2-diol;	NA	C15H24N6O5S	400.45	
TINIDAZOLE					
Tinidazole EP Impurity A	Tinidazole USP RC A ; 2-Methyl-5-nitro-1H-imidazole ;	696-23-1	C4H5N3O2	127.1	 C ₄ H ₅ N ₃ O ₂ Mol. Wt.: 127.1

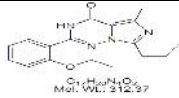
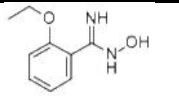

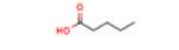
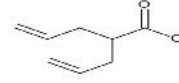
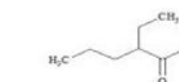
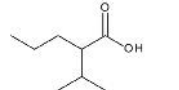
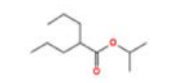
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Tinidazole EP Impurity B	Tinidazole USP RC B ; 4-Nitro-5-Desnitro Tinidazole ; 1-[2-(Ethylsulfonyl)ethyl]-2-methyl-4-nitro-1H-imidazole ;	25459-12-5	C ₈ H ₁₃ N ₃ O ₄ S	247.27	 C ₈ H ₁₃ N ₃ O ₄ S Mol. Wt.: 247.27
TIZANIDINE					
Tizanidine EP Impurity A	2,1,3-Benzothiadiazol-4-amine, N-(4,5-dihydro-1H-imidazol-2-yl)-	51322-69-1	C ₉ H ₉ N ₅ S	219.27	 C ₉ H ₉ N ₅ S Mol. Wt.: 219.27
Tizanidine EP Impurity B	N-(5-Chloro-2,1,3-benzothiadiazol-4-yl)thiourea ;	51323-05-8	C ₇ H ₅ ClN ₄ S ₂	244.72	
Tizanidine EP Impurity D	Methyl N-(5-chloro-2,1,3-benzothiadiazol-4-yl)carbamimidothioate ;	560120-68-5	C ₈ H ₇ ClN ₄ S ₂	258.75	
Tizanidine EP Impurity E	Tizanidine USP RC A ; 5-Chloro-2,1,3-benzothiadiazol-4-amine ;	30536-19-7	C ₆ H ₄ ClN ₃ S	185.63	 C ₆ H ₄ ClN ₃ S Mol. Wt.: 185.63
Tizanidine EP Impurity F	1,3-Bis(5-chloro-2,1,3-benzothiadiazol-4-yl)-1-(4,5-dihydro-1H-imidazol-2-yl)guanidine ;	1147548-85-3	C ₁₆ H ₁₁ Cl ₂ N ₉ S ₂	464.35	 C ₁₆ H ₁₁ Cl ₂ N ₉ S ₂ Mol. Wt.: 464.35
Tizanidine RC-C	1-Acetylimidazolidinethione;1-Acetyl-2-imidazolidinethione	5391-52-6	C ₅ H ₈ N ₂ O ₂ S	144.19482	
TIBOLONE					
Tibolone Impurity E	Tibolone EP Impurity E	105186-33-2	C ₂₃ H ₃₄ O ₃	358.53	

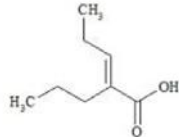
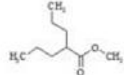



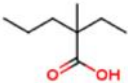
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
TIMOLOL					
Timolol Impurity B	(2RS)-3-[(1,1-Dimethylethyl)amino]-2-[[4-(morpholin-4-yl)-1,2,5-thiadiazol-3-yl]oxy]propan-1-ol ;	59697-06-2	C ₁₃ H ₂₄ N ₄ O ₃ S	316.42	 C ₁₃ H ₂₄ N ₄ O ₃ S Mol. Wt.: 316.42
Timolol EP Impurity D	4-(Morpholin-4-yl)-1,2,5-thiadiazol-3-ol ;	30165-97-0	C ₆ H ₉ N ₃ O ₂ S	187.22	 C ₆ H ₉ N ₃ O ₂ S Mol. Wt.: 187.22
TIAMULIN					
Tiamulin Hydrogen Fumarate	3aS,4R,5S,6S,8R,9R,9aR,10R)-6-Ethenyl-5-hydroxy-4,6,9,10-tetramethyl-1-oxodecahydro-3a,9-propano-3aH-cyclopentacycloocten-8-yl [(Phenylsulphonyl)oxy]acetate	848129-54-4	C ₂₈ H ₃₈ O ₇ S	518.662 1	
TORSEMIDE					
Torsemide USP RC B	N-1-Butyl 1-Demethylethyl Torsemide ; N-[[[(Butylamino)carbonyl]-4-[(3-methylphenyl)amino]-3-pyridinesulfonamide ;	160972-33-8	C ₁₇ H ₂₂ N ₄ O ₃ S	362.45	 C ₁₇ H ₂₂ N ₄ O ₃ S Mol. Wt.: 362.45
TOPOTECAN					
Topotecan N-Desmethyl Impurity	9-Methylaminomethyl-10-hydroxycamptothecin ; (S)-10-[[[(Methylamino) methyl]-4-ethyl-4,9-dihydroxy-1H-pyrano[3',4':6,7]indolizino[1,2-b]quinoline-3,14(4H,12H)-dione ;	190710-79-3	C ₂₂ H ₂₁ N ₃ O ₅	407.42	 C ₂₂ H ₂₁ N ₃ O ₅ Mol. Wt.: 407.42
TOLTERODINE					

Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Tolterodine EP Impurity E	4-methyl-2-[1-phenyl-3-[(propan-2-yl)amino]propyl]phenol.	480432-14-2	C ₁₉ H ₂₅ NO	283.41	
Tolterodine Lactone Impurity Racemate	6-Methyl-4-phenyl-3,4-dihydro-1-benzopyran-2-one ;	40546-94-9	C ₁₆ H ₁₄ O ₂	238.28	 C ₁₆ H ₁₄ O ₂ Mol. Wt.: 238.28
TRIMETHOPRIM					
Trimethoprim Impurity B	(2,4-Diaminopyrimidin-5-yl)(3,4,5-trimethoxyphenyl)methanone ;	30806-86-1	C ₁₄ H ₁₆ N ₄ O ₄	304.3	 C ₁₄ H ₁₆ N ₄ O ₄ Mol. Wt.: 304.3
Trimipramine Impurity C	(2RS)-3-(5H-Dibenzo[b,f]azepin-5-yl)-N,N,2-trimethylpropan-1-amine ;	315-69-5	C ₂₀ H ₂₄ N ₂	292.42	 HCl
TROPICAMIDE					
Tropicamide RC C	2-Phenylhydracrylic acid, 3-Hydroxy-2-phenylpropionic acid	529-64-6	C ₉ H ₁₀ O ₃	166.17	
TRIMEBUTINE					

Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Trimebutine Base	NA	39133-31-8	C ₂₂ H ₂₉ NO ₅	387.47	
TROSPIUM					
Trospium Chloride RC A	Benzilic Acid	76-93-7	C ₁₄ H ₁₂ O ₃	228.24	
Trospium Impurity D	NA	467-32-3	C ₂₈ H ₂₀ O ₄	420.47	
TRANEXAMIC					
Tranexamic Acid Impurity D	4-Aminomethylbenzoic acid ;	56-91-7	C ₈ H ₉ NO ₂	151.16	 C ₈ H ₉ NO ₂ Mol. Wt.: 151.16
1,2,4-Triazole Sodium Salt	1H-1,2,4-Triazole Sodium Salt; Sodium 1,2,4-triazole-4-ide; Sodium 1H-1,2,4-Triazolate; Sodium 1H-1,2,4-Triazolide; Triazole Sodium Salt.	41253-21-8	C ₂ H ₂ N ₃ Na	91.05	
TRAVOPROST					
Travoprost Related Compound A	(5Z ,13E)-(9S,11R,15R)-9,11,15-trihydroxy-16-(m-trifluoromethylphenoxy)-17,18,19,20-tetranor-5,13-prostadienoic acid	54276-17-4	C ₂₃ H ₂₉ F ₃ O ₆	458.47	

	Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
	5,6-Trans Travoprost	5,6-trans Travoprost;(5E)-7-[(1R,2R,3R,5S)-3,5-Dihydroxy-2-[(1E,3R)-3-hydroxy-4-[3-(trifluoromethyl)phenoxy]-1-buten-1-yl]cyclopentyl]-5-heptenoic acid 1-methylethyl ester;(5E)-7-[(1R,3R,3R,5S)-3,5-dihydroxy-2-[(1E,3R)-3-hydroxy-4-[3-(trifluoroMethyl)phenoxy]-1-buten-1-yl]cyclopentyl]-5-heptenoic Acid 1-Methylethyl Ester.	1563176-59-9	C26H35F3O6	500.55	
	15-Keto Derivative	(5Z,13E)-(9S,11R)-9,11,-Dihydroxy-15-oxo-16-(m-trifluoromethylphenoxy)-17,18,19,20-tetranor-5,13-prostadienoic acid,isopropyl ester	404830-45-1	C26H33F3O6	498.53	
TROPISETRON						
	Tropisetron Impurity A	(1R,3r,5S)-8-Methyl-8-azabicyclo[3.2.1]oct-3-ol (Tropine)	120-29-6	C18H15NO	141.21	
VARDENAFIL						
V	Vardenafil EP Impurity A	VSLs-VAR-A	NA	C21H28N6O4S	460.55	
	Vardenafil Impurity D	Vardenafil Dimer;(phenylene))bis(5-methyl-7-propylimidazo[5,1-f][1,2,4]triazin-4(3H)-one).	1255919-03-9	C38H46N10O8S2	834.96	

Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Vardenafil Dessulfonyl Impurity	2-(2-Ethoxyphenyl)-5-methyl-7-propyl-3H-imidazo[5,1-f][1,2,4]triazin-4-one.	224789-21-3	C17H20N4O2	312.37	
2-ETHOXY-N-HYDROXY-BENZAMIDINE	Imidoxim;2-ETHOXY-N-HYDROXY-BENZAMIDINE;Vardenafil Impurity (2-Ethoxy-N-Hydroxy BenzaMidine)	879-57-2	C9H12N2O2	180.2	
Benzoyl Impurity	NA	1255919-01-7	C26H30N6O4S	522.20	
VALPROIC ACID					
Valproic Acid Impurity A	pentanoic acid	109-52-4	C5H10O2	102.13	
Valproic Acid Related Compound A	NA	99-67-2	C8H12O2	140.18	
Valproic Acid Impurity B	NA	20225-24-5	C7H14O2	130.19	
Valproic Acid Impurity C	(2RS)-2-(1-Methylethyl)pentanoicAcid.	62391-99-5	C8H16O2	144.22	
Valproic Acid Impurity D	isopropyl 2-propylpentanoate	52061-75-3	C11H22O2	186.29	

Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Valproic Acid Impurity E	2-Propyl-2-Pentenoic Acid	NA	C ₈ H ₁₄ NO ₂	142.20	
Valproic Acid Impurity F	NA	NA	C ₉ H ₁₈ O ₂	158.24	
Valproic Acid Impurity G	NA	NA	C ₁₁ H ₂₃ NO	185.31	
Valproic Acid Impurity I	NA	NA	C ₈ H ₁₅ N	125.22	
Valproic Acid Impurity J	NA	NA	C ₁₁ H ₂₁ N	167.30	
Valproic Acid Impurity K	2-ethyl-2-methylpentanoic acid	5343-52-2	C ₁₄ H ₂₀ N ₂ O ₃	264.33	

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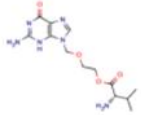
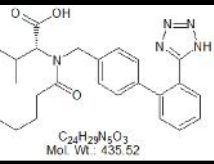
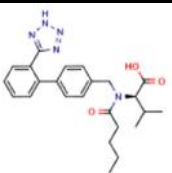
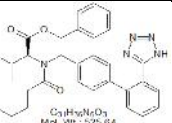
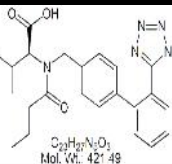
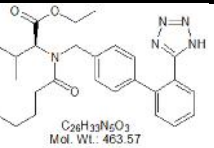
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
2-Butyl Valproic	4-Octanecarboxylic Acid;	3274-28-0	C ₉ H ₁₈ O ₂	158.24	
VALACICLOVIR					
Valaciclovir EP Impurity A	Valaciclovir USP Related Compound A ; Guanine ; 2-Amino-1,9-dihydro-6H-purin-6-one ;	73-40-5	C ₅ H ₅ N ₅ O	151.13	 C ₅ H ₅ N ₅ O Mol. Wt.: 151.13
Valaciclovir EP Impurity B	Valaciclovir USP Related Compound B ; Aciclovir ; 2-Amino-9-[(2-hydroxyethoxy)methyl]-1,9-dihydro-6H-purin-6-one ;	59277-89-3	C ₈ H ₁₁ N ₅ O ₃	225.20	 C ₈ H ₁₁ N ₅ O ₃ Mol. Wt.: 225.20
Valaciclovir EP Impurity C	2-[(2-Amino-6-oxo-1,6-dihydro-9H-purin-9-yl)methoxy]ethyl-N-methyl-L-valinate ;	1346617-39-7 (HCl salt) ; 1346747-	C ₁₄ H ₂₂ N ₆ O ₄ (base) ; C ₁₄ H ₂₃ ClN ₆ O ₄ (HCl sa	338.36	 C ₁₄ H ₂₂ N ₆ O ₄ Mol. Wt.: 338.36
Valaciclovir EP Impurity D	2-[(2-Amino-6-oxo-1,6-dihydro-9H-purin-9-yl)methoxy]ethyl-N-ethyl-L-valinate ;	1346747-69-0	C ₁₅ H ₂₄ N ₆ O ₄	352.39	 C ₁₅ H ₂₄ N ₆ O ₄ Mol. Wt.: 352.39
Valaciclovir EP Impurity E	Valaciclovir USP Related Compound E ; N-Benzyloxycarbonyl Valacyclovir ; 2-[(2-Amino-6-oxo-1,6-dihydro-9H-purin-9-yl)methoxy]ethyl N-(benzyloxy carbonyl)-L-valinate ;	124832-31-1	C ₂₁ H ₂₆ N ₆ O ₆	458.47	 C ₂₁ H ₂₆ N ₆ O ₆ Mol. Wt.: 458.47

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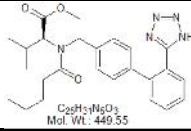
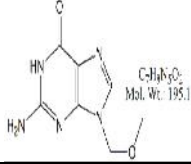
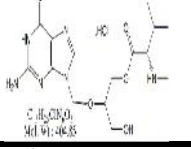

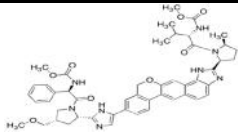
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Valaciclovir EP Impurity F	Valaciclovir USP Related Compound F ; 2-Hydroxyethyl L-valinate tosylate ;	86150-61-0	C ₁₄ H ₂₃ NO ₆ S	333.40	<p>C₁₄H₂₃NO₆S Mol. Wt.: 333.4</p>
Valaciclovir EP Impurity G	Valaciclovir USP Related Compound G ; N,N-Dimethylpyridin-4-amine ;	1122-58-3	C ₇ H ₁₀ N ₂	122.17	<p>C₇H₁₀N₂ Mol. Wt.: 122.17</p>
Valaciclovir EP Impurity H	2-[(2-Amino-6-oxo-1,6-dihydro-9H-purin-9-yl)methoxy]ethyl L-alaninate ;	84499-64-9 (base) ; 84499-63-8 (HCl)	C ₁₁ H ₁₆ N ₆ O ₄	296.28	<p>C₁₁H₁₆N₆O₄ Mol. Wt.: 296.28</p>
Valaciclovir EP Impurity J	2-[(2-Amino-6-oxo-1,6-dihydro-9H-purin-9-yl)methoxy]ethyl L-isoleucinate ;	142963-63-1	C ₁₄ H ₂₂ N ₆ O ₄	338.36	<p>C₁₄H₂₂N₆O₄ Mol. Wt.: 338.36</p>
Valaciclovir EP Impurity M	N-Formyl Valacyclovir ; 2-[(2-Amino-6-oxo-1,6-dihydro-9H-purin-9-yl)methoxy]ethyl N-formyl-L-valinate ;	847670-62-6	C ₁₄ H ₂₀ N ₆ O ₅	352.35	<p>C₁₄H₂₀N₆O₅ Mol. Wt.: 352.35</p>
Valaciclovir EP Impurity R	D-Valacyclovir Hydrochloride ; Acyclovir D-Valinate Hydrochloride ; D-VACV Hydrochloride ; 2-[(2-Amino-6-oxo-1,6-dihydro-9H-purin-9-yl)methoxy]ethyl D-valinate hydrochloride ;	124832-28-6	C ₁₃ H ₂₁ ClN ₆ O ₄	360.8	<p>C₁₃H₂₁ClN₆O₄ Mol. Wt.: 360.8</p>

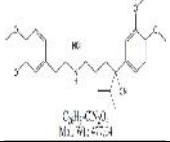
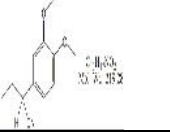
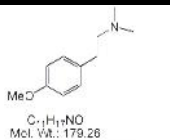
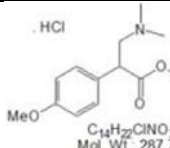
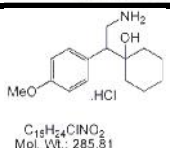
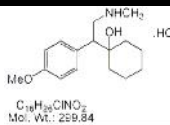
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Valacyclovir	L-Valine 2-[(2-Amino-1,6-dihydro-6-oxo-9H-purin-9yl)methoxy]ethyl Ester.	124832-26-4	C ₁₃ H ₂₀ N ₆ O ₄	324.34	
VALSARTAN					
Valsartan USP RC A	Valsartan EP Impurity A ; Valsartan R-Isomer ; (R)-Valsartan ;(R-N-valeryl-N-([2'-(1H-tetrazole-5-yl)biphen-4-yl]methyl)valine ;	137862-87-4	C ₂₄ H ₂₉ N ₅ O ₃	435.52	 C ₂₄ H ₂₉ N ₅ O ₃ Mol. Wt. 435.52
Valsartan EP Impurity A	Valsartan EP impurity A;ent-Valsartan;USP Valsartan Related Compound A;Valsartan R Isomer; (2R)-3-methyl-2[pentanoyl[[2'-(1H-tetrazol-5-yl)biphenyl-4-yl]methyl]amino]butanoc cid;(R-N-valeryl-N-([2-(1H-tetrazole-5-yl)biphen-4-yl]methyl)valine	137862-87-4	C ₂₄ H ₂₉ N ₅ O ₃	435.52	
Valsartan EP Impurity B	Valsartan USP Related Compound C ;Valsartan Benzyl Ester ; [(S-N-Valeryl-N-([2'-(1H-tetrazole-5-yl)biphen-4-yl]methyl)-valine benzyl ester ;	137863-20-8	C ₃₁ H ₃₅ N ₅ O ₃	525.64	 C ₃₁ H ₃₅ N ₅ O ₃ Mol. Wt. 525.64
Valsartan EP Impurity C	Valsartan N-Oxybutyl Analog ; Valsartan N-Butyryl Analog ; (S)-N-(1-Oxobutyl)-N-[[2-(1H-tetrazol-5-yl)[1,1'-biphenyl]-4-yl]methyl]-valine ;	952652-79-8	C ₂₃ H ₂₇ N ₅ O ₃	421.49	 C ₂₃ H ₂₇ N ₅ O ₃ Mol. Wt. 421.49
Valsartan Ethyl Ester	(S)-N-Valeryl-N-([2'-(1H-tetrazole-5-yl)biphen-6-yl]methyl)-valine ethyl ester	1111177-30-0	C ₂₆ H ₃₃ N ₅ O ₃	463.57	 C ₂₆ H ₃₃ N ₅ O ₃ Mol. Wt. 463.57

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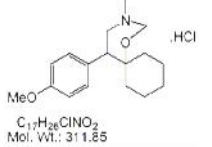
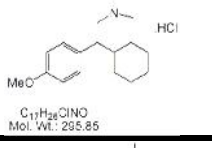
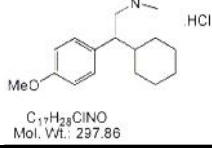
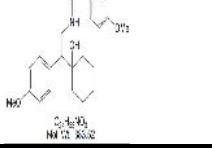
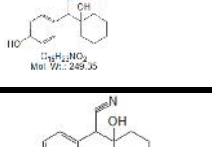
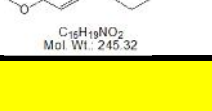
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Valsartan Methyl Ester	Valsartan USP RC E;(S)-N-Valeryl-N-([2'-(1H-tetrazole-5-yl)biphen-5-yl]methyl)-valine methyl ester	137863-17-3	C ₂₅ H ₃₁ N ₅ O ₃	449.55	 C ₂₅ H ₃₁ N ₅ O ₃ Mol. Wt. 449.55
VALGANCICLOVIR					
Valganciclovir USP RC C	9-Methoxymethyl Guanine ; 2-Amino-1,9-dihydro-9-(methoxymethyl)-6H-purin-6-one ;	1202645-50-8	C ₇ H ₉ N ₅ O ₂	195.18	 C ₇ H ₉ N ₅ O ₂ Mol. Wt. 195.18
Valganciclovir USP RC N	Ganciclovir Mono-N-Methyl Valinate ; N-Methyl Valganciclovir HCl ; N-Methyl-L-valine 2-[(2-amino-1,6-dihydro-6-oxo-9H-purin-9-yl)methoxy]-3-hydroxypropyl ester HCl	1401562-16-0	C ₁₅ H ₂₅ CIN ₆ O ₅	404.85	 C ₁₅ H ₂₅ CIN ₆ O ₅ Mol. Wt. 404.85
Valganciclovir HCl D-Valine Analog	Valganciclovir HCl D-Valine Analog	1393911-57-3	C ₁₄ H ₂₃ CIN ₆ O ₅	390.82	 C ₁₄ H ₂₃ CIN ₆ O ₅ Mol. Wt. 390.82
VELPATASVIR					
Velpatasvir	GS 5816; Methyl [(2S)-1-[(2S,5S)-2-[9-[2-[(2S,4S)-1-[(2R)-2-[(Methoxycarbonyl)amino]-2-phenylacetyl]-4-(methoxymethyl)pyrrolidin-2-yl]-1H-imidazol-5-yl]-1,11-dihydroisochromeno[4,3-d:6,7]naphtho[1,2-d]imidazol-2-yl]-5-methylpyrrolidin-1-yl]-3-methyl-1-oxobutan-2-yl]carbamate;	1377049-84-7	C ₄₉ H ₅₄ N ₈ O ₈	883	 C ₄₉ H ₅₄ N ₈ O ₈ Mol. Wt. 883
VERAPAMIL					

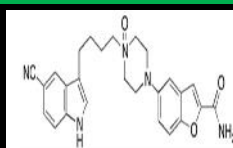
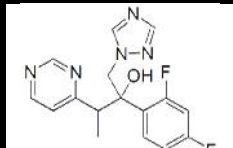
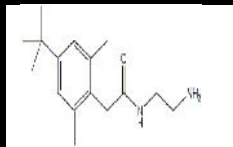
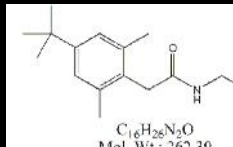
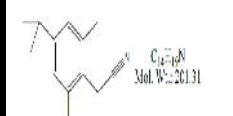
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Verapamil EP Impurity J HCl	(2RS)-2-(3,4-Dimethoxyphenyl)-5-[[2-(3,4-dimethoxyphenyl)ethyl]amino]-2-(1-methylethyl)pentanenitrile monohydrochloride ;	67812-42-4 (HCl salt)	C ₂₆ H ₃₇ ClN ₂ O ₄	477.04	
Verapamil Impurity K	(2RS)-2-(3,4-Dimethoxyphenyl)-3-methylbutanenitrile ;	20850-49-1	C ₁₃ H ₁₇ NO ₂	219.28	
VENLAFAXINE					
Venlafaxine EP Impurity A	2-(4-Methoxyphenyl)-N,N-dimethylethanamine ;	775-33-7	C ₁₁ H ₁₇ NO	179.26	
Venlafaxine EP Impurity B	Venlafaxine Ester Impurity ; Ethyl (2RS)-3-(dimethylamino)-2-(4-methoxyphenyl)propanoate hydrochloride ;	323176-93-8 (Base)	C ₁₄ H ₂₂ ClNO ₃	287.78	
Venlafaxine EP Impurity C	Venlafaxine EP Impurity C ("DDMV") ; N,N-Didesmethyl Venlafaxine Hydrochloride ; 1-[2-Amino-1-(4-methoxyphenyl)ethyl] cyclohexanol hydrochloride ;	130198-05-9	C ₁₅ H ₂₄ ClNO ₂	285.81	
Venlafaxine EP Impurity D	1-[(1RS)-1-(4-Methoxyphenyl)-2-(methylamino)ethyl]cyclohexanol Hydrochloride ;	93413-90-2	C ₁₆ H ₂₆ ClNO ₂	299.84	

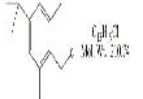
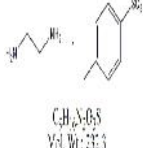
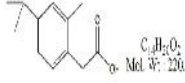
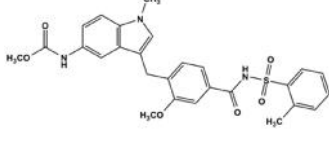
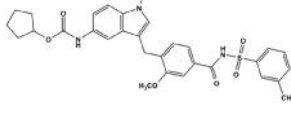
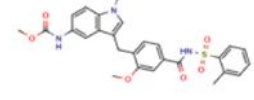
Impurity Catalogue

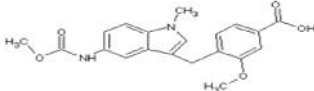
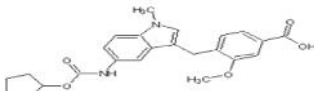
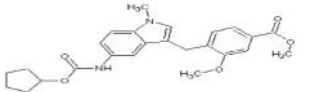
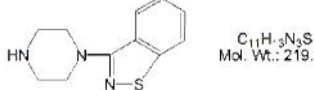
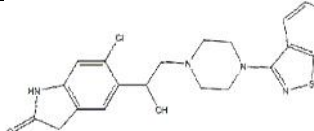
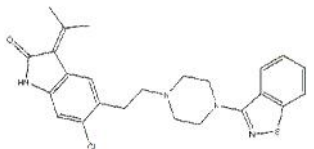
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Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Venlafaxine EP Impurity E	(5RS)-5-(4-Methoxyphenyl)-3-methyl-1-oxa-3- azaspiro-[5.5]undecane Hydrochloride ;	93413-56-0	C ₁₇ H ₂₆ ClNO ₂	311.85	
Venlafaxine EP Impurity F	(2RS)-2-(Cyclohex-1-enyl)-2-(4-methoxyphenyl)-N,N-dimethylethanamine hydrochloride ; 2-Cyclohexenyl-2-(4-methoxyphenyl)-N,N -dimethylethanamine hydrochloride	93413-79-7	C ₁₇ H ₂₆ ClNO	295.85	
Venlafaxine EP Impurity G	Deshydroxy Venlafaxine Hydrochloride ; 1-[2-Dimethylamino-1-(4-methoxyphenyl) ethyl] cyclohexane HCl ;	1076199-92-2	C ₁₇ H ₂₈ ClNO	297.86	
Venlafaxine EP Impurity H (Base)	-[2-(2-(p-Methoxyphenyl)ethylamino-1-(4-methoxyphenyl) ethyl] cyclo hexanol ;	1329795-88-1	C ₂₄ H ₃₃ NO ₃	383.52	
Venlafaxine O-Desmethyl N-Desmethyl Impurity	O-Desmethyl N-Desmethyl Venlafaxine ; N-Desmethyl Desvenlafaxine ; N,O-Didesmethyl Venlafaxine ; 4-[2-(Methylamino)-1-(1-hydroxycyclohexyl) ethyl]phenol ;	135308-74-6	C ₁₅ H ₂₃ NO ₂	249.35	
Venlafaxine Hydroxy Nitrile Impurity	1-(Cyano-(4-methoxyphenyl)methyl)cyclohexanol ;	93413-76-4	C ₁₅ H ₁₉ NO ₂	245.32	
VILAZODONE					

	Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
	Vilazodone N-Oxide	5-[4-[4-(5-Cyano-1H-indol-3-yl)butyl]-4-oxido-1-piperazinyl]-2-benzofurancarboxamide;	1622425-52-8	C26H27N5O3	457.52	
VORICONAZOLE						
	Voriconazole EP Impurity B	(2RS,3SR)-2-(2,4-Difluorophenyl)-3-pyrimidin-4-yl-1-(1H-1,2,4-triazol-1-yl)butan-2-ol ;	182369-73-9	C16H15F2N5O	331.32	 C ₁₆ H ₁₅ F ₂ N ₅ O Mol. Wt.: 331.32
XYLOMETAZOLINE						
X	Xylometazoline HCl	Oxymetazoline EP Impurity B ; 2-[4-(1,1-Dimethylethyl)-2,6-dimethylbenzyl]-4,5-dihydro-1H-imidazole hydrochloride ;	1218-35-5	C16H25ClN2	280.84	 C ₁₆ H ₂₅ N ₂ O Mol. Wt.: 262.39
	Xylometazoline EP Impurity A	N-(2-Aminoethyl)-2-[4-(1,1-dimethylethyl)-2,6-dimethylphenyl]acetamide ;	94266-17-8	C16H26N2O	262.39	 C ₁₆ H ₂₆ N ₂ O Mol. Wt.: 262.39
	Xylometazoline EP Impurity C	[4-(1,1-Dimethylethyl)-2,6-dimethylphenyl]acetonitrile	84803-57-6	C14H19N	201.31	 C ₁₄ H ₁₉ N Mol. Wt.: 201.31

	Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
	Xylometazoline EP Impurity D	1-(1,1-Dimethylethyl)-3,5-dimethylbenzene ;	98-19-1	C ₁₂ H ₁₈	162.27	
	Xylometazoline EP Impurity E	Ethane-1,2-diamine mono(4-methylbenzenesulfonate) ; Ethylenediamine p-toluenesulfonate ;	14034-59-4	C ₉ H ₁₆ N ₂ O ₃ S	232.3	
	Xylometazoline EP Impurity F	[4-(1,1-Dimethylethyl)-2,6-dimethylphenyl]acetic acid ;	854646-92-7	C ₁₄ H ₂₀ O ₂	220.31	
Z	Zafirlukast Impurity A	: Decyclopentyl Zafirlukast Methyl Ester; N-[3-[[2-methoxy-4-[[[(2-methylphenyl)sulfonyl]amino]carbonyl]phenyl]methyl]-1-methyl-1H-indol-5-yl]carbamic Acid Methyl Ester; Zafirlukast Related Compound C; Methyl 3-[2-Methoxy-4-(o-tolylsulfonylcarbamoyl)benzyl]	1159195-67-1	C ₂₇ H ₂₇ N ₃ O ₆ S	521.58	
	Zafirlukast Impurity B	Zafirlukast m-Tolyl Isomer; N-[3-[[2-Methoxy-4-[[[(3-methylphenyl)sulfonyl]amino]carbonyl]phenyl]methyl]-1-methyl-1H-indol-5-yl]carbamic Acid Cyclopentyl Ester; USP Zafirlukast Related Compound D; Cyclopentyl 3-[2-Methoxy-4-(m-tolylsulfonylcarbamoyl)benzyl]	1159195-69-3	C ₃₁ H ₃₃ N ₃ O ₆ S	575.68	
	Zafirlukast RC C	N-[3-[[2-methoxy-4-[[[(2-methylphenyl)sulfonyl]amino]carbonyl]phenyl]methyl]-1-methyl-1H-indol-5-yl]carbamic Acid Methyl Ester; Decyclopentyl Zafirlukast Methyl Ester	1159195-67-1	C ₂₇ H ₂₇ N ₃ O ₆ S	521.58	

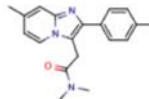
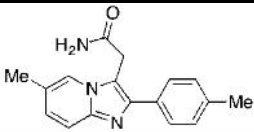
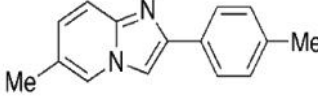
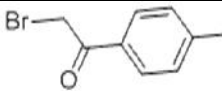
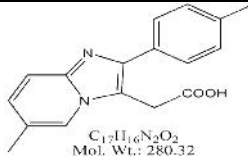
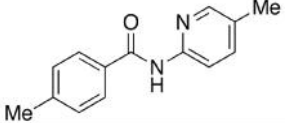
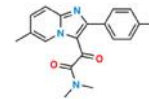
Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Zafirlukast Impurity D	3-methoxy-4-({5-[(methoxycarbonyl)amino]-1-methyl-1H-indol-3-yl)methyl)benzoic acid	NA	C ₂₀ H ₂₀ N ₂ O ₅	368.38	
Zafirlukast Impurity E	4-[[5-[[[(Cyclopentyloxy)carbonyl]amino]-1-methyl-1H-indol-3-yl]methyl]-3-methoxybenzoic Acid	107754-20-1	C ₂₄ H ₂₆ N ₂ O ₅	422.47	
Zafirlukast Impurity F	4-[[5-[[[(Cyclopentyloxy)carbonyl]amino]-1-methyl-1H-indol-3-yl]methyl]-3-methoxy-benzoic Acid Methyl Ester	107754-19-8	C ₂₅ H ₂₈ N ₂ O ₅	436.5	
Ziprasidone EP Impurity A	1 Ziprasidone USP RC A ; 3-Piperazin-1-yl-1,2-benzisothiazole.	87691-87-0	C ₁₁ H ₁₃ N ₃ S	219.31	 C ₁₁ H ₁₃ N ₃ S Mol. Wt.: 219.31
Hydroxy Ziprasidone	: Hydroxy Ziprasidone;5-[2-[4-(1,2-Benzisothiazol-3-yl)-1-piperazinyl]-1-hydroxyethyl]-6-chloro-1,3-dihydro-2H-indol-2-one;Ziprasidone BC	884305-08-2	C ₂₁ H ₂₁ ClN ₄ O ₂	428.93504	
Isopropylidene Ziprasidone	Isopropylidene ziprasidone;5-[2-[4-(1,2-Benzisothiazol-3-yl)-1-piperazinyl]ethyl]-6-chloro-1,3-dihydro-3-(1-methylethylidene)-2H-indol-2-one.	684269-12-3	C ₂₄ H ₂₅ ClN ₄ O ₂	452.9995	

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Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
3-Oxo Ziprasidone (Ziprasidone Impurity B)	5-[2-[4-(1,2-Benzisothiazol-3-yl)piperazin-1-yl]ethyl]-6-chloro-1H-indole-2,3-dione; Ziprasidone Impurity B.	1159977-56-6	C ₂₁ H ₁₉ ClN ₄ O ₂ S	426.91916	
ZPH-2 Alcohol Impurity	Ziprasidone Impurity (6-Chloro-5-(2-Chloro-1-Hydroxy-Ethyl)-1,3-Dihydro-Indol-2-One.	884305-06-0	C ₁₀ H ₉ Cl ₂ N ₂ O ₂	246.09	
3-(1,2-Benzisothiazolyl) Ziprasidone (Ziprasidone Impurity E)	3-(1,2-Benzisothiazol-3-yl)-5-[2-[4-(1,2-benzisothiazol-3-yl)-1-piperazinyl]ethyl]-6-chloro-1,3-dihydro-2H-indol-2-one; Ziprasidone Impurity E.	1159977-04-4	C ₂₇ H ₂₃ ClN ₆ O ₂ S ₂	546.11	
Ziprasidone EP Impurity C	2-[2-Amino-5-[2-[4-(1,2-benzisothiazol-3-yl)piperazin-1-yl]ethyl]-4-chlorophenyl]acetic acid sodium salt ;	1798033-44-9	C ₂₁ H ₂₂ ClN ₄ NaO ₂ S	452.93	
Zidovudine EP Impurity B	1-(3-Chloro-2,3-dideoxy-β-D-erythro-pentofuranosyl)-5-methylpyrimidine-2,4(1H,3H)-dione ;	25526-94-7	C ₁₀ H ₁₃ ClN ₂ O ₄	260.67	

Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Zolpidem USP RC A	Zolpidem USP Related Compound A;5-Methyl Zolpidem;Zolpidem Related Compound A;N,N-dimethyl-2-(7-methyl-2-(p-tolyl)imidazo[1,2-a]pyridin-3-yl);N,N-Dimethyl-2-[7-methyl-2-(4-methylphenyl)imidazo[1,2-a]pyridin-3-yl];Zolpidem EP Impurity A;	1346600-85-8	C ₁₉ H ₂₁ N ₃ O	307.39	
Zolpidem USP RC C	6-Methyl-2-(4-methylphenyl)imidazo[1,2-a]pyridine-3-acetamide	365213-58-7	C ₁₇ H ₁₇ N ₃ O	279.34	
6-Methyl-2-(4-Methylphenyl)-Imidazo[1,2-A]Pyridine	2-(4-Methylphenyl)-6-methylimidazo[1,2-a]pyridine	88965-00-8	C ₁₅ H ₁₄ N ₂	222.29	
2-Bromo-4'-Methylacetophenone	Methylphenacyl bromide;2-bromo-1ptolyethanone;4Methylphenacylbromide98%;Bromomethyl p-tolyl ketone;	619-41-0	C ₉ H ₉ BrO	213.07	
Zolpidem Acid Impurity	2-(6-Methyl-2-p-tolylimidazo[1,2-]pyridin-3-yl)acetic acid ;	189005-44-5	C ₁₇ H ₁₆ N ₂ O ₂	280.32	 C ₁₇ H ₁₆ N ₂ O ₂ Mol. Wt.: 280.32
Zolpidem Impurity C	4-Methyl-N-(5-methyl-2-pyridinyl)benzamide.Zolpyridine; Zolpidem Impurity;	349122-64-1	C ₁₄ H ₁₄ N ₂ O	226.27	
Zolpidem USP RC B	2-Oxo Zolpidem ; N,N-Dimethyl-2-(6-methyl-2-p-tolylimidazo[1,2-a]pyridin-3-yl)-2-oxoacetamide.	400038-68-8	C ₁₉ H ₁₉ N ₃ O ₂	321.4	

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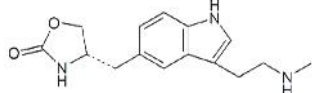
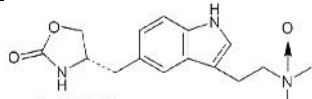


Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Zopiclone Impurity B	6-(5-chloropyridin-2-yl)-7-hydroxy-6,7-dihydro-5H-pyrrolo[3,4-b]pyrazin-5-one	43200-81-3	C ₁₁ H ₇ CIN ₄ O ₂	262.65	
Zolmitriptan	(S)-4-({3-[2-(Dimethylamino)ethyl]-1H-indol-5-yl}methyl)oxazolidin-2-one ;	139264-17-8	C ₁₆ H ₂₁ N ₃ O ₂	287.36	
Zolmitriptan R-Isomer	(R)-4-({3-[2-(Dimethylamino)ethyl]indol-5-yl}methyl)oxazolidin-2-one.	139264-24-7	C ₁₆ H ₂₁ N ₃ O ₂	287.36	
Zolmitriptan USP RC B	(S)-2-Amino-3-{3-[2-(dimethylamino)ethyl]-1H-indol-5-yl}propan-1-ol.	139264-69-0	C ₁₃ H ₁₉ N ₃ O	233.31	
Zolmitriptan USP RC C	Zolmitriptan USP Related Compound C;1-[2-(Dimethylamino)ethyl]-6,6a,7,11-tetrahydrooxazolo[3,4-b]pyrrolo[2,3-h]isoquinolin-9(3H)-on	1346599-24-3	C ₁₇ H ₂₁ N ₃ O ₂	299.36	
Zolmitriptan USP RC D	Ethoxycarbonyl Zolmitriptan ; (S)-Ethyl 3-[2-(dimethylamino)ethyl]-5-[(2-oxooxazolidin-4-yl)methyl]-1H-indole-2-carboxylate	191864-24-1	C ₁₉ H ₂₅ N ₃ O ₄	359.42	
Zolmitriptan USP RC G	(S)-4-(4-Aminobenzyl)-2-(1H)-oxazolidinone	152305-23-2	C ₁₀ H ₁₂ N ₂ O ₂	192.21	

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Impurity name	Chemical Name	CAS Number	Molecular formula	Molecular weight	structure
Zolmitriptan N-Desmethyl	Zolmitriptan USP Related Compound A ; N-Desmethyl Zolmitriptan ; (S)-4-({3-[2-(Methylamino)ethyl]-1H-indol-5-yl}methyl)oxazolidin-2-one ;	139264-35-0	C ₁₅ H ₁₉ N ₃ O ₂	273.33	 <p>C₁₅H₁₉N₃O₂ Mol. Wt.: 273.33</p>
Zolmitriptan N-Oxide	Zolmitriptan USP RC E ; Zolmitriptan N-Oxide ; (4S)-4-[[3-[2-(Dimethyloxidoamino)ethyl]-1H-indol-5-yl]methyl-2-oxazolidinone ;	251451-30-6	C ₁₆ H ₂₁ N ₃ O ₃	303.36	 <p>C₁₆H₂₁N₃O₃ Mol. Wt.: 303.36</p>