

## API-PRODUCT LIST

### COMMERCIALIZED PRODUCTS

S.No.	Product	CAS No.	Pharmacopeia	Therapeutic Use	DMF availability	COS
1	Carvedilol	72956-09-3	In-house/IP/BP/Ph.Eur/USP/JP	Anti-Hypertensive	✓	✓
2	Citalopram Hydrobromide	59729-32-7	In-house/IP/BP/Ph.Eur/USP	Anti-Depressant	✓	✓
3	Duloxetine Hydrochloride	136434-34-9	In-house/IP/Ph.Eur/USP	Anti-Depressant	✓	✓
4	Escitalopram Oxalate	219861-08-2	In-house/IP/Ph.Eur/USP	Anti-Depressant	✓	✓
5	Ondansetron	99614-02-5	In-house/IP/USP	Anti-Emetic	✓	
6	Ondansetron Hydrochloride Dihydrate	103639-04-9	In-house/IP/BP/Ph.Eur/USP	Anti-Emetic	✓	✓
7	Rivastigmine	123441-03-2	In-house/Ph.Eur/USP	Alzheimer's	✓	✓
8	Rivastigmine Hydrogen Tartrate	129101-54-8	In-house/Ph.Eur/USP	Alzheimer's	✓	✓
9	Mizolastine	108612-45-9	In-house	Anti-Histamine	✓	
10	Carbidopa	28860-95-9	In-house/IP/BP/Ph.Eur/USP	Anti-Parkinson	✓	
11	Fluindione	957-56-2	In-house	Vit-K Antagonist	✓	
12	Topiramate	97240-79-4	IP/USP	Epilepsy	✓	
13	Ziprasidone Hydrochloride	122883-93-6	USP/Ph.Eur	Anti-Psychotic	✓	
14	Tolterodine Tartrate	124937-52-6	In-house/IP/USP	Overactive Bladder	Tech. pack	
15	Desvenlafaxine Succinate	448904-47-0	In-house/USP	Anti-Depressant	Tech. pack	

### PRODUCTS UNDER COMMERCIALIZATION

S.No.	Product	CAS No.	Pharmacopeia	Therapeutic Use	Tech. Pack
1	Rotigotine	99755-59-6	USP/Ph.Eur/IH	Anti-Parkinson	✓
2	Varenicline Tartrate	375815-87-5	In-house	Anti-Smoking	✓
3	Ranolazine	95635-55-5	In-house	Anti-Angina	✓
4	Raloxifene Hydrochloride	82640-04-8	In-house/Ph.Eur/USP	Osteoporosis	-
5	Silodosin	160970-54-7	In-house	Benign Prostatic Hyperplasia	-
6	Sitagliptin	486460-32-6	In-house	Anti-Hyperglycemic	-
7	Nebivolol Hydrochloride	152520-56-4	In-house/IP	Anti-Hypertensive	-
8	Dapoxetine Hydrochloride	129938-20-1	In-house	Premature Ejaculation	-
9	Darifenacin Hydrobromide	133099-07-7	In-house	Urinary Incontinence	-
10	Lacosamide	175481-36-4	-	Anti-Epileptic	-
11	Bilastine	202189-78-4	-	Anti-Histamine	-

- *These products will not be offered the countries where the valid patent exists.*

## INTERMEDIATES LIST

Carvedilol Intermediates		CAS No.	Commercial/Lab Scale
1.1	1,3-Cyclohexanedione	504-02-9	Commercial
1.2	1,2,3,9-tetrahydro-4H-carbazol-4-one	15128-52-6	Commercial
1.3	4-Hydroxycarbazole	52602-39-8	Commercial
1.4	4-(2,3-Epoxypropoxy)carbazole	51997-51-4	Commercial
1.5	2-(2-Methoxyphenoxy)ethylamine	64464-07-9	Commercial
1.6	N-(2-(2-Methoxyphenoxy)ethyl)benzylamine	(CAS No: 3246-03-5)/ HCl (120606-08-8)	Commercial
1.7	2-[2-(2-methoxyphenoxy)ethyl]-1H-isoindole-1,3(2H)-dione	26646-63-9	Commercial
Citalopram / Escitalopram intermediates		CAS No.	Commercial/Lab Scale
2.1	4-[(4'-Dimethyl amino)-1-(4''-fluorophenyl)-1-hydroxy butyl]-3-(hydroxy methyl) benzonitrile	103146-25-4	Commercial
2.2	4-[(4'-Dimethyl amino)-1-(4''-fluorophenyl)-1-hydroxy butyl]-3-(hydroxy methyl) benzonitrile HBr	103146-26-5	Commercial
2.3	4-[(4'-Dimethyl amino)-1-(4''-fluorophenyl)-1-hydroxy butyl]-3-(hydroxy methyl) benzonitrile HCL	717133-25-0	Commercial
2.4	4-[(4'-Dimethyl amino)-1-(4''-fluorophenyl)-1-hydroxy butyl]-3-(hydroxy methyl) benzonitrile Oxalate	717133-32-9	Commercial
2.5	4-[(4-(Dimethyl amino)-1-(4''-fluorophenyl)-1-hydroxy butyl)-3-(hydroxy methyl) benzonitrile hemi DPPTA salt	128173-53-5	Commercial
2.6	1-[3-(Dimethylamino)-propyl]-1-(4-fluoro phenyl)-5-phthalan carbonitrile HCl	85118-27-0	Commercial
2.7	1-(4'-Fluoro phenyl)-1,3-dihydro iso benzofuran-5-carbonitrile	64169-67-1	Commercial
2.8	1-(4-bromo-2-(hydroxymethyl)phenyl)-4-(dimethylamino)-1-(4-fluorophenyl) butan-1-ol oxalate	-	-
2.9	3-N,N'-(dimethylamino)propyl chloride Hydrochloride	5407-04-51	Commercial
2.10	1-[3-(dimethylamino)propyl]-1-(4-fluorophenyl)1,3-dihydroisobenzofuran-5-carbonitrile	59729-33-8	Commercial
2.11	5-Bromo-1-(3-dimethyl amino propyl) -1-(4'fluoro phenyl)-1,3-dihydro isobenzofuran oxalate	-	-
Duloxetine intermediates		CAS No.	Commercial/Lab Scale
3.1	RS-N,N-Dimethyl-3-hydroxy-3-(2-thienyl)-1-propanamine	13636-02-7	Commercial
3.2	S(-)-N,N-Dimethyl-3-hydroxy-3-(2-thienyl)-1-propanamine	132335-44-5	Commercial
3.3	S(+)-N,N-Dimethyl-3-(1-Naphthalenyloxy)-3-(2-thienyl)-1-propanamine oxalate	132335-47-8	Commercial
3.4	RS-N,N- Dimethyl-3-(1-Naphthalenyloxy)-3-(2-thienyl)-1-propanamine oxalate	116817-12-0	Commercial
3.5	(N,N-dimethyl-3-(naphthalen-1-yloxy)-3-(thiophen-2-yl)propan-1-amine fumarate	-	Lab
3.6	N-Methyl-3-(naphthalen-1-yloxy)-3-(thiophen-2-yl)propan-1-amine Oxalate (Racemic Duloxetine Oxalate)	-	Lab
Ondansetron Hydrochloride Dihydrate		CAS No.	Commercial/Lab Scale
4.1	1,2,3,9-tetrahydro-4H-carbazol-4-one	15128-52-6	Commercial
4.2	9-Methyl-1,2,3,9-tetra hydro 4H carbazol-4-one	27387-31-1	Commercial
4.3	3-[(NN-Dimethyl amino) methyl]-9-methyl-1,2,3,9-tetra hydro 4H-carbazol-4-one hydrochloride	119812-29-2	Commercial
Rivastigmine intermediates		CAS No.	Commercial/Lab Scale
5.1	$\alpha$ -(meta hydroxy phenyl) ethyldimethyl amine	105601-04-5)/ HCl (CAS No:5441-61-2)	Commercial
5.2	S (+)- $\alpha$ meta hydroxy phenyl)ethyl dimethyl amine	139306-10-8	Commercial

## INTERMEDIATES LIST

Rotigotine intermediates		CAS No.	Commercial/Lab Scale
6.1	(S)-1,2,3,4-tetrahydro-5-methoxynaphthalen-2-amine Mandelate	439133-67-2	Commercial
6.2	2-(Thiophen-2-yl)ethyl 4-methylbenzenesulfonate	40412-06-4	Commercial
6.3	(S)-1,2,3,4-tetrahydro-5-methoxy-N-(2-(thiophen-2-yl)ethyl)naphthalen-2-amine hydrochloride	-	-
Ranolazine intermediates		CAS No.	Commercial/Lab Scale
7.1	N-(2,6-dimethylphenyl)-2-(piperazin-1-yl)acetamide	5294-61-1	Commercial
7.2	2-((2-methoxyphenoxy)methyl)oxirane	2210-74-4	Commercial
Raloxifene HCL Intermediates		CAS No.	Commercial/Lab Scale
8.1	4-(2-(PIPERIDIN-1-YL)ETHOXY)BENZOIC ACID HYDROCHLORIDE	84449-80-9	Commercial
8.2	6-Methylsulfonyloxy-2-[(4-methyl sulfonyloxy) phenyl] benzothiophene	84449-65-0	Commercial
Silodosin Intermediates		CAS No.	Commercial/Lab Scale
9.1	2-(2-(2,2,2-trifluoroethoxy)-phenoxy)-ethyl methanesulfonate----	160969-03-9	Commercial
9.2	5-[(2R)-2-Aminopropyl]-1-[3-(Benzoyloxy)propyl]-2,3-dihydro -1H-indole-7-carbonitrile(2R,3R)-2,3-dihydroxy butanedioate	239463-85-5	Commercial
9.3	1-[3-(Benzoyloxy)propyl]-2,3-dihydro-5-[(2R)-2-[[2-(2,2,2-trifluoroethoxy)phenoxy]ethyl]amino]propyl]-1H-indole-7-carbonitrile	885340-11-4	Lab
9.4	1H-Indole-7-carbonitrile, 2,3-dihydro-1-(3-hydroxypropyl)-5-[(2R)-2-[[2-(2,2,2-trifluoroethoxy)phenoxy]ethyl]amino]propyl]	885340-13-6	Lab
Sitagliptin intermediates		CAS No.	Commercial/Lab Scale
10.1	3-(trifluoromethyl)-5,6,7,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrazine hydrochloride	762240-92-6	Commercial
10.2	1-(3-(trifluoromethyl)-5,6-dihydro-[1,2,4]triazolo[4,3-a]pyrazin-7(8H)-yl)-4-(2,4,5-trifluorophenyl)butane-1,3-dione / (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	Lab
Tolterodine Tartrate Intermediates		CAS No.	Commercial/Lab Scale
11.1	3-(2-Methoxy-5-methylphenyl)-3-phenylpropan-1-ol	124937-73-1	Commercial
11.2	3,4-Dihydro-6-methyl-4-phenylchromen-2-one	40546-94-9	Commercial
11.3	2-(3-(diisopropylamino)-1-phenylpropyl)-4-methylphenol (Racemic Tolterodine)	124936-74-9	-
Varenicline Intermediates		CAS No.	Commercial/Lab Scale
12.1	2,3,4,5-Tetrahydro-1H-1,5-methanobenzo[d]azepine hydrochloride	230615-52-8	Commercial
Ziprasidone Intermediates		CAS No.	Commercial/Lab Scale
13.1	3-(1-Piperazinyl)-1,2-Benzisothiazole HCL	87691-88-1	Commercial
13.2	3-(Piperazin-1-yl)Benzo[d]isothiazole	87691-87-0	Lab
13.3	6-Chloroindolin-2-one	56341-37-8	Commercial
13.4	6-Chloro-5-(2-chloroethyl)indolin-2-one	118289-55-7	Commercial

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Bilastine Intermediates		CAS No.	Commercial/Lab Scale
14.1	2-Ethoxyethyl-4-methylbenzenesulfonate	17178-11-9	Lab
14.2	2-Piperidin-4-yl-1H-benzoimidazole	38385-95-4	Lab
Carteolol Intermediates		CAS No.	Commercial/Lab Scale
15.1	3,4-dihydro-5-hydroxyquinolin-2(1H)-one	30389-33-4	Lab
15.2	5-((oxiran-2-yl)methoxy)-3,4-dihydroquinolin-2(1H)-one	51781-14-7	Lab
Cilostazol Intermediates		CAS No.	Commercial/Lab Scale
16.1	6-Hydroxy-3,4-dihydro-2(1H)-quinolinone	54197-66-9	Lab
Dapoxetine HCL Intermediates		CAS No.	Commercial/Lab Scale
17.1	3-Chloro-1-phenylpropan-1-ol	18776-12-0	Lab
17.2	Racemic Dapoxetine Oxalate	-	-
17.3	Racemic Dapoxetine Hydrochloride	1071929-03-7	Lab
17.4	Dapoxetine Base	119356-77-3	Lab
Darifenacin intermediates		CAS No.	Commercial/Lab Scale
18.1	2,2-Diphenyl-2-((R)-pyrrolidin-3-yl)acetonitrile hydrobromide	194602-27-2	Lab
18.2	3-(S)-(+)-(1-carbamoyl-1,1-diphenylmethyl) pyrrolidine - L-(+)-tartrate	134002-26-9	Lab
18.3	5-(2-chloroethyl)-2,3-dihydrobenzofuran	943034-50-2	Lab
18.4	5-(2-bromoethyl)-2,3-dihydrobenzofuran	127264-14-6	Lab
Lacosamide Intermediates		CAS No.	Commercial/Lab Scale
19.1	Boc-D-Serine	6368-20-3	Lab
19.2	Boc-O-Methyl-D-serine	86123-95-7	Lab
19.3	(R)-tert-Butyl 1-(benzylamino)-3-methoxy-1-oxopropan-2-ylcarbamate	880468-89-3	Lab
19.4	(R)-2-amino-N-benzyl-3-methoxypropanamide	196601-69-1	Lab
19.5	N-Cbz-D-Serine	6081-61-4	Lab
19.6	(R)-N-benzyl-2-(benzyloxycarbonylamino)-3-hydroxypropionamide	219835-31-1	-
Lidocaine intermediate		CAS No.	Commercial/Lab Scale
20.1	2-chloro-N-(2,6-dimethylphenyl)acetamide	1131-01-7	Commercial
Nebivolol Intermediates		CAS No.	Commercial/Lab Scale
21.1	(RS)- 6-Fluoro-3,4-dihydro-2H-1-benzopyran-2-carboxylic acid	-	Commercial
21.2	(S)- 6-Fluoro-3,4-dihydro-2H-1-benzopyran-2-carboxylic acid	129101-36-6	Lab
21.3	R-6-Fluoro-3,4-dihydro-2H-1-benzopyran-2-carboxylic acid	129101-37-7	Lab
21.4	(6-fluoro-3,4-dihydro-2H-1-benzopyran-2-yl)(piperidin-1-yl)methanone	878208-57-2	Lab
21.5	6-Fluoro-3,4-dihydro-2-oxiranyl-2H-1-benzopyran (Mixture of Two Diastereomers)	99199-90-3	Lab
21.6	2-(benzylamino)-1-(6-fluorochroman-2-yl)ethanol	99199-91-4	Lab
21.7	N-Benzyl Nebivolol Hydrochloride	-	Lab
Racecadotril Intermediates		CAS No.	Commercial/Lab Scale
22.1	Diethyl-2-benzylmalonate	607-81-8	-

## INTERMEDIATES LIST

22.2	2-Benzylacrylic acid	5669-19-2	Commercial
22.3	Glycine benzyl ester P-toluene sulfonic acid	1738-76-7	Commercial
22.4	Dimethyl-2-benzylmalonate	6626-84-2	Commercial
<b>Repaglinide Intermediates</b>		<b>CAS No.</b>	<b>Commercial/Lab Scale</b>
23.1	(S)-3-Methyl-1-(2-piperidin-1-ylphenyl)butylamine N-Acetyl-L-glutamate	219921-94-5	Lab
23.2	(S)-3-Methyl-1-(2-piperidin-1-ylphenyl)butylamine	147769-93-5	-
23.3	(S)-Repaglinide Ethyl Ester	147770-06-7	Lab
<b>Tartaric Acid Derivatives</b>		<b>CAS No.</b>	<b>Commercial/Lab Scale</b>
24.1	(+)-Di-p-toluoyl-D-tartaric Acid	32634-68-7	Commercial
24.2	(-)-Di-p-toluoyl-L-tartaric Acid	32634-66-5	Commercial
24.3	(+)-Dibenzoyl-D-tartaric Acid	100632-52-8	Commercial
24.4	(-)-Dibenzoyl-L-tartaric Acid	2743-38-6	Commercial
24.5	Diethyl- D –Tartrate	13811-71-7	Lab
<b>Sofosbuvir intermediates</b>		<b>CAS No.</b>	<b>Commercial/Lab Scale</b>
25.1	L-Alanine Isopropyl ester hydrochloride	39825-33-7	Commercial
<b>Valsartan intermediates</b>		<b>CAS No.</b>	<b>Commercial/Lab Scale</b>
26.1	L-Valine methyl ester hydrochloride	6306-52-1	Commercial
26.2	N-[(2'-Cyanobiphenyl-4-methyl)-(L)-Valine methyl ester Hydrochloride	482577-59-3	Commercial
26.3	L-Valine benzyl ester hydrochloride	2462-34-2	Commercial
26.4	L-Valine benzyl ester p-toluene sulfonate	16652-76-9	Lab
<b>Vildagliptin intermediates</b>		<b>CAS No.</b>	<b>Commercial/Lab Scale</b>
27.1	(S)-1-(2-chloroacetyl)pyrrolidine-2-carbonitrile	207557-35-5	Lab
<b>D- Serine Derivatives</b>		<b>CAS No.</b>	<b>Commercial/Lab Scale</b>
28.1	D Serine Methyl Ester HCL	5874-57-7	Lab
28.2	N-BOC-D-Serine Methyl Ester	95715-85-8	Lab
<b>L Valine Derivatives</b>		<b>CAS No.</b>	<b>Commercial/Lab Scale</b>
29.1	L Valine Methyl Ester HCL	6306-52-1	Commercial
29.2	N-Cbz-L-Valine	1149-26-4	Lab
29.3	L Valinamide Hcl	3014-80-0	Lab
29.4	N BOC L Valine	13734-41-3	Lab
<b>L Proline Derivatives</b>		<b>CAS No.</b>	<b>Commercial/Lab Scale</b>
30.1	L Prolinamide	7531-52-4	Commercial
30.2	N-BOC-L-Proline	15761-39-4	Lab
30.3	N-BOC-Prolinamide/ D-N-BOC-Prolinamide	70138-72-6	Commercial
30.4	L-Proline Methyl Ester HCL	2133-40-6	Lab
30.5	N-CBZ-L-Proline	1148-11-4	Lab
<b>L Alanine Derivatives</b>		<b>CAS No.</b>	<b>Commercial/Lab Scale</b>

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31.1	L Aniline Methyl Ester HCL	2491-20-5	Commercial
31.2	(S)-3- Chloroalanine Methyl Ester HCL	112346-82-4	-
<b>Other products</b>		<b>CAS No.</b>	<b>Commercial/Lab Scale</b>
32.01	Ortho Phthalaldehyde	643-79-8	Commercial
32.02	2 methyl 1,3 cyclohexane dione	1193-55-1	Commercial
32.03	Flufenamic acid	530-78-9	Commercial
32.04	N-Methyl-1-Naphthyl Methyl Amine HCL	65473-13-4	Commercial
32.05	O-Benzyl-L-threonine benzyl ester oxalate	15260-11-4	Commercial
32.06	(2-Chlorophenyl) acetaldehyde	4251-63-2	Lab
32.07	[3-(Dimethylamino)propyl] triphenyl phosphonium bromide Hydrobromide	27710-82-3	Lab
32.08	1,2-Cyclohexanedione	765-87-7	Lab
32.09	2-Chlorothioxanthone	86-39-5	Lab
32.10	3-(N, N-diisopropylamino)-1-phenylpropan-1-ol	906532-26-1	Lab
32.11	3,6 Dibromo N Phenyl Carbazole	57103-20-5	Lab
32.12	3-fluoro-4-(hydroxymethyl) benzonitrile (FHB-2)	219873-06-0	Lab
32.13	4-[(2-Carboxyphenyl) methoxy] benzene acetic acid	55453-89-9	Lab
32.14	4-acetyl-piperidine-1-carboxylic acid tert-butyl ester	206989-61-9	Lab
32.15	5-Methoxy-2-tetralone	32940-15-1	Lab
32.16	6,11-Dihydro-11-oxo-dibenz[b,e]oxepin-2-acetic acid	55453-87-7	Lab
32.17	6-chlorohexan-2-one	10226-30-9	Lab
32.18	Benzene sulfonamide	98-10-2	Lab
32.19	Cis trans 1,4-Cyclohexanedicarboxylic acid (TCHA-1)	1076-97-7	Lab
32.20	Etifenin	63245-28-3	Lab
32.21	Formamidine acetate (FEC)	3473-63-0	Lab
32.22	Isonipectic acid (ISPA)	498-94-2	Lab
32.23	L-Threonine amide HCL	33209-01-7	Lab
32.24	Methyl 1-(4-fluorophenylcarbamoyl) cyclopropane carboxylate	1345847-71-3	Lab
32.25	N- Phenyl Carbazole	1150-62-5	Lab
32.26	N-Benzyl-D-serine. (BDSE-1)	106910-77-4	Lab
32.27	N-Boc-(S)-(-)-2-amino-1-butanol	150736-72-4	Lab
32.28	N-Boc-2-pyrrolidone	85909-08-6	Lab
32.29	N-BOC-piperidine-4-carboxylic acid	84358-13-4	Lab
32.30	N-BOC-piperidine-4-carboxylic acid	84358-13-4	Lab
32.31	N-Cbz-L-leucine	2018-66-8	Lab
32.32	N-methyl-1-(pyridin-2-yl) methenamine	21035-59-6	Lab
32.33	S-(+)-2 Phenyl Propionic Acid	7782-24-3	Lab
32.34	S-Pyrrolidine-2-carbonitrile HCL	65732-69-6	Lab
32.35	trans 1,4-cyclohexanedicarboxylic acid (TCHA-2)	619-82-9	Lab
32.36	Triglycidyl aminophenol	5026-74-4	Lab
32.37	Z-Threonine-OTBS	94820-26-5	Lab
32.38	(S)-(-)-2-(3,4- Dimethoxybenzyl)-2-hydrazinyl Propionic Acid	-	-

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