



PAREXEL® CLINICAL RESEARCH SERVICES:
EARLY PHASE

VALIDATED ASSAY METHODS



EXTENSIVE ACCESS TO VALIDATED BIOANALYTICAL METHODS

Bioanalysis is the discipline that allows quantitative determination of chemical entities and biomarkers in biological matrices. PAREXEL® offers the highest quality bioanalytical services for qualitative and quantitative drug, metabolite, and biomarker analysis in a variety of matrices. With our advanced technology backed by 30 years of bioanalytical experience, we have developed an extensive database with more than 500 internally developed and validated analytical methods that adhere to ICH and FDA guidelines. Our methods have been used in more than 3,000 pre-clinical and clinical trials. New analytical methods are developed continuously for our clients. The laboratory routinely performs safety testing for clinical chemistry and hematology analysis.

OUR BIOANALYTICAL DIVISION OFFERS A WIDE RANGE OF BIOANALYTICAL SERVICES:

- **PK analysis**
 - 16 LC-MS/MS instruments - Applied Bioscience API2000 to API5500
 - Development and validation of new bioanalytical assays
 - More than 500 validated methods used in over 3,000 clinical & pre-clinical trials to date
- **Clinical laboratory**
 - Routine safety testing (serology, hematology and clinical chemistry)
- **Immunochemistry laboratory PK/PD analysis of macromolecules using RIA, ELISA, ECL**
- **Cellular assays are performed using Flow Cytometry and Cytometric Bead Array (CBA)**
- **Preferred partnerships with accredited laboratories are in place, for specialized biomarker assays not directly provided by PAREXEL**
- **Several methods have been developed for proprietary drugs and these are not listed in this document due to confidentiality**
- **Our validation procedures and SOP's are in compliance with the United States of America (FDA)¹ and European (EMA)² guidelines**
- **The laboratories are GLP & ISO17025 certified and were successfully inspected by the FDA, MHRA, WHO and EMA**

1 Guidance for Industry, Bioanalytical Method Validation [2001] and Workshop/Conference Report – Quantitative bioanalytical methods validation and implementation: best practices for chromatographic and ligand binding assays [Viswanathan et al., AAPS J. 2007; 9 (1) Article 4].

2 "CPMP/EWP/QWP/1401/98, Note for Guidance on the Investigation of Bioavailability and Bioequivalence" (EMA)

Validated Assay Methods

DRUG	LLOQ	TECHNIQUE	MATRIX	STORAGE TEMP	LIGHT SENSITIVITY
Acamprosate	1.08 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Acarbose	0.32 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Acebutolol	5.56 ng/ml	HPLC Fluorescence	Human Plasma	-20 °C	Normal Light
Diacetolol	20.9 ng/ml	HPLC Fluorescence	Human Plasma	-20 °C	Normal Light
Aceclofenac	25.1 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Acetaminophen	0.16 µg/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Acetazolamide	14.2 ng/ml	LC-MS/MS	Human Plasma	-70 °C	Normal Light
Acetylsalicylic Acid	28.1 ng/ml	HPLC Fluorescence	Human Plasma	-70 °C	Normal Light
Salicylic Acid	40.0 ng/ml	HPLC Fluorescence	Human Plasma	-70 °C	Normal Light
Acyclovir	5.03 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
α-GST	2.50 ng/ml	ELISA	Urine	-20 °C	Normal Light
α-GST	0.74 ng/ml	ELISA	Human Serum	-20 °C	Normal Light
Alfuzosin	0.34 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Alendronate	1.95 ng/ml	HPLC Fluorescence	Urine	-20 °C	Normal Light
Allopurinol	0.35 µg/ml	HPLC UV	Human Plasma	-20 °C	Normal Light
Oxypurinol	0.64 µg/ml	HPLC UV	Human Plasma	-20 °C	Normal Light
Alprazolam	0.50 ng/ml	GC ECD	Human Plasma	-20 °C	Normal Light
Altizide	3.03 ng/ml	HPLC UV	Human Plasma	-20 °C	Normal Light

Compounds that have active metabolites to be considered for analysis

Active metabolite of the molecule referenced above in bold

Validated Assay Methods

DRUG	LLOQ	TECHNIQUE	MATRIX	STORAGE TEMP	LIGHT SENSITIVITY
Ambroxol	0.28 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Amiloride	0.28 ng/ml	HPLC UV	Human Plasma	-20 °C	Normal Light
Amiodarone	1.57 ng/ml	HPLC UV	Human Plasma	-20 °C	Normal Light
N-desethylamiodarone	6.96 ng/ml	HPLC UV	Human Plasma	-20 °C	Normal Light
Amisulpride	2.40 ng/ml	HPLC UV	Human Plasma	-20 °C	Normal Light
Amitriptyline	0.89 ng/ml	GC NPD	Human Plasma	-20 °C	Normal Light
Amlodipine	0.05 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Light Sensitive
Amoxycillin	98.7 ng/ml	HPLC UV	Human Plasma	-70 °C	Normal Light
Anagrelide	0.09 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Antipyrine	0.60 µg/ml	HPLC UV	Urine	-70 °C	Normal Light
4-OH-antipyrine	1.94 µg/ml	HPLC UV	Urine	-70 °C	Normal Light
Nor-Antipyrine	1.05 µg/ml	HPLC UV	Urine	-70 °C	Normal Light
Anti-Insulin Antibodies (semi-quantitative)	200 ng/ml (sensitivity)	RIPA	Human Serum	-20 °C	Normal Light
Aripiprazole	0.50 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Atenolol	13.0 ng/ml	HPLC Fluorescence	Human Plasma	-70 °C	Normal Light
Atovaquone	0.44 µg/ml	HPLC UV	Human Plasma	-20 °C	Normal Light
Atropine	0.61 µg/ml	LC-MS/MS	Colic Mixture	-20 °C	Normal Light
Azathioprine	0.47 ng/ml	LC-MS/MS	Human Plasma	-70 °C	Light Sensitive
6-Mercaptopurine	0.47 ng/ml	LC-MS/MS	Human Plasma	-70 °C	Light Sensitive
Baclofen	35.0 ng/ml	HPLC UV	Human Plasma	-20 °C	Normal Light

Validated Assay Methods

DRUG	LLOQ	TECHNIQUE	MATRIX	STORAGE TEMP	LIGHT SENSITIVITY
Beclomethasone-di-propionate	39.1 pg/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Beclomethasone-mono-propionate	38.3 pg/ml	LC-MS/MS	Human Plasma	-70 °C	Normal Light
Bedaquiline	62.5 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Bedaquiline-M2	15.6 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Benfluorex	0.39 ng/ml	LC-MS/MS	Human Plasma	-70 °C	Normal Light
Norfenfluramine	0.20 ng/ml	LC-MS/MS	Human Plasma	-70 °C	Normal Light
THEP	0.39 ng/ml	LC-MS/MS	Human Plasma	-70 °C	Normal Light
Betamethazone	58.7 pg/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Bezafibrate	0.10 µg/ml	HPLC UV	Human Plasma	-20 °C	Normal Light
Bicalutamide	30.3 ng/ml	LC-MS/MS	Human Plasma	-70 °C	Normal Light
Bindarit	0.10 µg/ml	LC-MS/MS	Plasma/Urine	-20 °C	Normal light
Bisoprolol	0.88 ng/ml	HPLC Fluorescence	Human Plasma	-20 °C	Normal Light
Bromazepam	1.56 ng/ml	GC ECD	Human Plasma	-20 °C	Normal Light
Budesonide	20.8 pg/ml	LC-MS/MS	Human Plasma	-70 °C	Light sensitive
Buflomedil	0.15 µg/ml	HPLC UV	Human Plasma	-20 °C	Normal Light
Bumetanide	0.39 ng/ml	HPLC UV	Human Plasma	-20 °C	Normal Light
Bupropion	7.81 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Hydroxybupropion	7.65 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light

Compounds that have active metabolites to be considered for analysis

Active metabolite of the molecule referenced above in bold

Validated Assay Methods

DRUG	LLOQ	TECHNIQUE	MATRIX	STORAGE TEMP	LIGHT SENSITIVITY
Buspirone	62.5 ng/ml	LC-MS/MS	Human Plasma	-70 °C	Normal Light
6-hydroxybuspirone	15.6 pg/ml	LC-MS/MS	Human Plasma	-70 °C	Normal Light
Cabergoline	1.50 pg/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Caffeine	5.80 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Paraxanthine	4.90 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Calanolide	22.3 ng/ml	HPLC Fluorescence	Human Plasma	-20 °C	Light Sensitive
Candesartan	2.49 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Light Sensitive
Capecitabine	7.81 ng/ml	LC-MS/MS	Human Plasma	-70 °C	Normal Light
Captopril	23.3 ng/ml	HPLC UV	Human Plasma	-20 °C	Normal Light
Carbamazepine	2.64 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Carbamazepine-10,11-epoxide	5.15 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Carbamazepine-10,11-diol	9.12 ng/ml	HPLC UV	Human Plasma	-20 °C	Normal Light
Carbidopa	2.30 ng/ml	LC-MS/MS	Human Plasma	-70 °C	Normal Light
Carvedilol	1.26 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
4-OH-phenyl carvedilol	0.15 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Cefaclor	0.05 µg/ml	HPLC UV	Human Plasma	-70 °C	Normal Light
Cefazolin	0.78 ng/ml	LC-MS/MS	Human Plasma	-70 °C	Normal Light
Cefetamet	0.10 µg/ml	HPLC UV	Human Plasma	-20 °C	Normal Light
Cefotaxime	0.64 µg/ml	HPLC UV	Plasma & CSF	-70 °C	Normal Light
Desacetylcefotaxime	0.47 µg/ml	HPLC UV	Plasma & CSF	-70 °C	Normal Light

Validated Assay Methods

DRUG	LLOQ	TECHNIQUE	MATRIX	STORAGE TEMP	LIGHT SENSITIVITY
Cefpodoxime	51.0 ng/ml	HPLC UV	Human Plasma	-20 °C	Normal Light
Ceftriaxone	0.5 µg/ml	LC-MS/MS	Human Plasma	-70 °C	Light Sensitive
Cefuroxime	0.12 µg/ml	HPLC UV	Human Plasma	-20 °C	Normal Light
Celecoxib	3.52 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Celiprolol	7.43 ng/ml	HPLC Fluorescence	Human Plasma	-20 °C	Normal Light
Cephalexin	0.12 µg/ml	HPLC UV	Human Plasma	-20 °C	Normal Light
Cephradine	0.89 µg/ml	HPLC UV	Human Plasma	-20 °C	Normal Light
Cetirizine	0.52 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Chlormadinone acetate	0.15 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Chlorpheniramine	1.21 ng/ml	GC NPD	Human Plasma	-20 °C	Normal Light
Chlorpromazine	20.0pg/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
7-hydroxychlorpromazine	20.0pg/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Chlorpropamide	1.40 µg/ml	HPLC UV	Human Plasma	-20 °C	Normal Light
Chlorthalidone	0.05 µg/ml	HPLC UV	Whole Blood	-20 °C	Normal Light
Cicletanine	2.91 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Cimetidine	34.5 ng/ml	HPLC UV	Human Plasma	-20 °C	Normal Light
Cinnarizine	3.56 ng/ml	HPLC UV	Human Plasma	-20 °C	Normal Light
Ciprofloxacin	0.06 µg/ml	LC-MS/MS	Human Plasma	-20 °C	Light Sensitive
Cisapride	0.88 ng/ml	HPLC UV	Human Plasma	-20 °C	Normal Light

Compounds that have active metabolites to be considered for analysis

Active metabolite of the molecule referenced above in bold

Validated Assay Methods

DRUG	LLOQ	TECHNIQUE	MATRIX	STORAGE TEMP	LIGHT SENSITIVITY
Citalopram	0.35 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Clarithromycin	7.30 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Clavulanic Acid	0.04 µg/ml	HPLC UV	Human Plasma	-70 °C	Normal Light
Clomipramine	1.50 ng/ml	HPLC ECD	Human Plasma	-20 °C	Normal Light
Clopidogrel (active metabolite)	0.49 ng/ml	LC-MS/MS	Human plasma	-70 °C	Normal Light
Clozapine	15.0 ng/ml	HPLC UV	Human Plasma	-20 °C	Normal Light
Codeine	1.58 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Cortisol	1.16 ng/ml	GC MS	Urine	-20 °C	Normal Light
6β-OH-cortisol	7.76 ng/ml	GC MS	Urine	-20 °C	Normal Light
C-Peptide	0.07 nmol/L	RIA	Serum/Plasma	-70 °C	Normal Light
Cycloguanil	4.64 ng/ml	HPLC UV	Human Plasma	-20 °C	Normal Light
Cyclosporine A	4.81 ng/ml	LC-MS/MS	Whole Blood	-70 °C	Light Sensitive
Cyproterone Acetate	0.55 ng/ml	GC MS	Human Plasma	-20 °C	Normal Light
Danazol	6.00 ng/ml	HPLC UV	Human Plasma	-20 °C	Normal Light
Dapivirine	5.00 pg/ml	LC-MS/MS	Plasma/Urine	-20 °C	Normal Light
Deferasirox	0.39 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Deferiprone	0.20 µg/ml	LC-MS/MS	Human Serum	-70 °C	Normal Light
Deferiprone-gluconoride	0.13 µg/ml	LC-MS/MS	Human Serum	-70 °C	Normal Light
Dehydroepiandrosterone Sulphate	18.4 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light

Validated Assay Methods

DRUG	LLOQ	TECHNIQUE	MATRIX	STORAGE TEMP	LIGHT SENSITIVITY
Desipramine	0.60 ng/ml	LC-MS/MS	Human Serum	-70 °C	Normal Light
2-OH-Desipramine	0.60 ng/ml	LC-MS/MS	Human Serum	-70 °C	Normal Light
Dexamethazone	1.17 ng/ml	HPLC UV	Human Plasma	-20 °C	Normal Light
Dextromethorphan	4.00 ng/ml	LC-MS/MS	Human Urine	-20 °C	Normal Light
Dextrorphan	40.0 ng/ml	LC-MS/MS	Human Urine	-20 °C	Normal Light
Dextropropoxyphene	0.15 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Light Sensitive
Nordextropropoxyphene	0.15 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Light Sensitive
Diacerein	50.7 ng/ml	HPLC UV	Human Plasma	-20 °C	Normal Light
Rhein	50.7 ng/ml	HPLC UV	Human Plasma	-20 °C	Normal Light
Diazepam	3.00 ng/ml	GC NPD	Human Plasma	-20 °C	Normal Light
Nor-Diazepam	3.00 ng/ml	GC NPD	Human Plasma	-20 °C	Normal Light
Diclofenac	195 pg/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
4-OH-Diclofenac	1.97 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Diclofenac	2.44 ng/ml	LC-MS/MS	Urine	-70 °C	Normal Light
4-OH-Diclofenac	2.44 ng/ml	LC-MS/MS	Urine	-70 °C	Normal Light
Diltiazem	2.34 ng/ml	HPLC UV	Human Plasma	-20 °C	Normal Light
Desacetyldiltiazem	3.63 ng/ml	HPLC UV	Human Plasma	-20 °C	Normal Light
N-Monodemethyldiltiazem	2.19 ng/ml	HPLC UV	Human Plasma	-20 °C	Normal Light

Compounds that have active metabolites to be considered for analysis

Active metabolite of the molecule referenced above in bold

Validated Assay Methods

DRUG	LLOQ	TECHNIQUE	MATRIX	STORAGE TEMP	LIGHT SENSITIVITY
Dimethylformamide	0.12 µg/ml	GC NPD	Human Plasma	-20 °C	Normal Light
Ethyl-N-methylcarbamate	1.11 µg/ml	GC NPD	Urine	-20 °C	Normal Light
N-methylformamide	1.12 µg/ml	GC NPD	Urine	-20 °C	Normal Light
Diminazene	100 ng/ml	HPLC	Human Plasma	-20 °C	Normal Light
Dimiracetam	0.16 µg/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Diphenhydramine	39.1 ng/ml	LC-MS/MS	Human Plasma	-70 °C	Light Sensitive
Domperidone	0.33 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Donepezil	0.109 ng/ml	LC-MS/MS	Human Plasma	-70 °C	Normal Light
Dothiepin	1.52 ng/ml	GC NPD	Human Plasma	-20 °C	Normal Light
Doxazosin	0.29 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Doxepin	0.64 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Light Sensitive
Desmethyldoxepin	0.18 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Light Sensitive
Doxycycline	15.0 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Light Sensitive
Duloxetine	0.40 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Dutasteride	0.125 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Ebastine	0.02 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Carebastine	0.94 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Efavirenz	14.2 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Enalapril	0.78 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Light Sensitive
Enalaprilat	0.78 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Light Sensitive

Validated Assay Methods

DRUG	LLOQ	TECHNIQUE	MATRIX	STORAGE TEMP	LIGHT SENSITIVITY
Epinephrine	15.0 pg/ml	LC-MS/MS	Human Plasma	-20 °C	Light Sensitive
Norepinephrine	30.0 pg/ml	LC-MS/MS	Human Plasma	-20 °C	Light Sensitive
Erythromycin	0.15 µg/ml	HPLC ECD	Human Plasma	-20 °C	Normal Light
Escitalopram	0.51 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Estradiol	20.0 pg/ml	RIA Radiometric	Human Serum	-20 °C	Normal Light
Estrone	10.0 pg/ml	RIA Radiometric	Human Serum	-20 °C	Normal Light
Ethambutol	5.00 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Exemestane	0.20 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Famotidine	0.59 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Faropenem	10.8 ng/ml	LC-MS/MS	Human Plasma	-70 °C	Normal Light
Fedovapagon	1.00 ng/ml	LC-MS/MS	Human Plasma	-70 °C	Normal Light
Felodipine	0.02 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Light Sensitive
Fenbendazole	3.90 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Fencamfamine	7.78 ng/ml	GC NPD	Urine	-20 °C	Normal Light
Fenfluramine	7.60 ng/ml	GC ECD	Human Plasma	-20 °C	Normal Light
Fenofibric acid	47.2 ng/ml	HPLC UV	Human Plasma	-20 °C	Normal Light
Fexofenadine	1.17 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Fibrino Peptide A	0.78 ng/ml	ELISA	Human Plasma	-70 °C	Normal Light
Finasteride	0.60 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light

Compounds that have active metabolites to be considered for analysis

Active metabolite of the molecule referenced above in bold

Validated Assay Methods

DRUG	LLOQ	TECHNIQUE	MATRIX	STORAGE TEMP	LIGHT SENSITIVITY
Flecainide	39.9 ng/ml	HPLC Fluorescence	Human Plasma	-20 °C	Normal Light
Flosequinan	30.7 ng/ml	HPLC UV	Human Plasma	-20 °C	Normal Light
Fluconazole	6.00 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Flurbiprofen (R- & S-)	2.04 ng/ml	LC-MS/MS	Human Plasma	-70 °C	Normal light
Fluticasone	6.25 pg/ml	LC-MS/MS	Human Plasma	-70 °C	Normal Light
Flunitrazepam	0.15 ng/ml	GC ECD	Human Plasma	-20 °C	Normal Light
Fluoxetine	0.20 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Norfluoxetine	0.21 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Flurbiprofen (R- & S-)	0.04 ng/ml	LC-MS/MS	Human Plasma	-70 °C	Normal light
Fluspirilene	9.93 pg/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Flutamide (hydro-)	3.10 ng/ml	GC ECD	Human Plasma	-20 °C	Normal Light
Formamide	1.18 µg/ml	GC NPD	Urine	-20 °C	Normal Light
Formoterol	1.56 pg/ml	LC-MS/MS	Human Plasma	-70 °C	Normal Light
Fosinoprilat	1.00 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Light Sensitive
Follicle Stimulating Hormone	1.0 mIU/ml	Spectrophotometric	Serum/Plasma	-20 °C	Normal Light
Free Insulin Glargine	5.02µU/ml	RIA	Human Serum	-20 °C	Normal Light
Frovatriptan	0.04 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Furosemide	12.0 ng/ml	HPLC Fluorescence	Human Plasma	-20 °C	Light Sensitive
Fusidic Acid	97.6 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Gabapentin	78.7 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light

Validated Assay Methods

DRUG	LLOQ	TECHNIQUE	MATRIX	STORAGE TEMP	LIGHT SENSITIVITY
Galantamine	0.39 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Gemfibrozil	0.46 µg/ml	HPLC UV	Human Plasma	-20 °C	Normal Light
Glibenclamide	0.78 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Gliclazide	4.40 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Glimepiride	0.25 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Glucagon	7.34 pmol/l	RIA Radiometric	Human Plasma	-20 °C	Light Sensitive
Glycopyrrolate	1.17 pg/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Granisetron	0.15 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
7-OH-Granisetron	0.04 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Growth Hormone	1.00 ng/ml	RIA Radiometric	Serum/Plasma	-20 °C	Normal Light
Guaifenesin	20.0 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Haloperidol	0.04 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Hydrochlorothiazide	0.18 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Hydrocortisone acetate	0.40 ng/ml	LC-MS/MS	Human Plasma	-70 °C	Light Sensitive
Hydrocortisone	5.00 ng/ml	LC-MS/MS	Human Plasma	-70 °C	Light Sensitive
Hydroxyflutamide	3.10 ng/ml	GC ECD	Human Plasma	-20 °C	Normal Light
Ibuprofen (R- & S-)	0.12 µg/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Indapamide	0.78 ng/ml	LC-MS/MS	Whole Blood	-20 °C	Normal Light
Indomethacin	33.7 ng/ml	HPLC Fluorescence	Human Plasma	-20 °C	Normal Light

Compounds that have active metabolites to be considered for analysis

Active metabolite of the molecule referenced above in bold

Validated Assay Methods

DRUG	LLOQ	TECHNIQUE	MATRIX	STORAGE TEMP	LIGHT SENSITIVITY
Indoramin	1.53 ng/ml	HPLC Fluorescence	Human Plasma	-20 °C	Light Sensitive
6-OH-Indoramin	2.25 ng/ml	HPLC Fluorescence	Human Plasma	-20 °C	Light Sensitive
Insulin - Glulisine	2.00 pg/ml	RIA Radiometric	Serum/Plasma	-20 °C	Normal Light
Insulin - Human	5.00 µIU/ml	RIA Radiometric	Human Serum	-20 °C	Normal Light
Insulin - Human (Free)	5.00 µIU/ml	RIA Radiometric	Serum/Plasma	-20 °C	Normal Light
Insulin (Immunoreactive - free)	5.00 µIU/ml	RIA Radiometric	Human Serum	-20 °C	Normal Light
Insulin - Lispro	5.00 µIU/ml	RIA Radiometric	Plasma/Urine	-20 °C	Normal Light
Ipsapirone	1.50 ng/ml	HPLC ECD	Human Plasma	-20 °C	Normal Light
Iron	1.89 µg/ml	ICP spectrometry	Human Plasma	-70 °C	Normal Light
Isoniazid	4.9 ng/ml	LC-MS/MS	Human Plasma	-70 °C	Normal Light
Isosorbide-5-mononitrate	10.2 ng/ml	GC ECD	Human Plasma	-20 °C	Normal Light
Isotretinoin	7.79 ng/ml	HPLC UV	Human Plasma	-20 °C	Light Sensitive
4-oxo-Isotretinoin	7.82 ng/ml	HPLC UV	Human Plasma	-20 °C	Light Sensitive
Itraconazole	6.40 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
OH-Itraconazole	6.39 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Kanamycin	0.11 µg/ml	HPLC	Urine	-20 °C	Normal Light
Ketoconazole	0.16 µg/ml	HPLC UV	Human Plasma	-20 °C	Normal Light
Ketoprofen	31.3 ng/ml	HPLC UV	Human Plasma	-20 °C	Normal Light
Lamivudine	32.7 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Lansoprazole (R- & S-)	4.00 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light

Validated Assay Methods

DRUG	LLOQ	TECHNIQUE	MATRIX	STORAGE TEMP	LIGHT SENSITIVITY
LAPS-Exendin-4	3.00 ng/ml	ELISA	Human Serum	-70 °C	Normal Light
LAPS-Exendin-4	2.00 ng/ml	ELISA	Urine	-70 °C	Normal Light
Levodopa	5.53 ng/ml	LC-MS/MS	Human Plasma	-70 °C	Normal Light
Levonorgestrel	0.26 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Lidocaine	0.34 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Linezolid	281 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Lisinopril	0.92 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Lofepamine	0.73 ng/ml	HPLC ECD	Human Plasma	-20 °C	Normal Light
Desipramine	2.48 ng/ml	HPLC ECD	Human Plasma	-20 °C	Normal Light
Loratadine	0.10 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Desloratadine (Desethylcarboxyloratadine)	0.10 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Losartan	0.13 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
EXP-3174	0.13 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Lovastatin	0.13 ng/ml	LC-MS/MS	Human Plasma	-70 °C	Light Sensitive
β-OH-Lovastatic acid	0.26 ng/ml	LC-MS/MS	Human Plasma	-70 °C	Light Sensitive
Luteinising Hormone (LH)	2.0 mIU/ml	Spectrophotometric	Plasma/Serum	-20 °C	Normal Light
Mapracorat	11.1 pg/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Maprotiline	1.08 ng/ml	HPLC Fluorescence	Human Plasma	-20 °C	Normal Light
Medroxyprogesterone-17-acetate	0.05 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light

Compounds that have active metabolites to be considered for analysis

Active metabolite of the molecule referenced above in bold

Validated Assay Methods

DRUG	LLOQ	TECHNIQUE	MATRIX	STORAGE TEMP	LIGHT SENSITIVITY
Mercaptopurine	0.73 ng/ml	LC-MS/MS	Human Plasma	-70 °C	Light Sensitive
Meloxicam	8.05 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Melperone	0.78 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Mephenytoin (R- & S-)	11.9 ng/ml	LC-MS/MS	Urine	-20 °C	Normal Light
4-OH-Mephenytoin (R- & S-)	23.6 ng/ml	LC-MS/MS	Urine	-20 °C	Normal Light
Meropenem	391 ng/ml	LC-MS/MS	Human Plasma	-70 °C	Normal Light
Metaxalone	39.0 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Metformin	17.5 ng/ml	HPLC UV	Human Plasma	-20 °C	Normal Light
Methotrexate	1.5 ng/ml	LC-MS/MS	Human Plasma	-70 °C	Normal Light
Methylamphetamine	1.15 ng/ml	GC ECD	Human Plasma	-20 °C	Normal Light
Methyldopa	34.8 ng/ml	HPLC ECD	Human Plasma	-20 °C	Normal Light
Methylsalicylic Acid	62.5 ng/ml	HPLC	Human Plasma	-20 °C	Normal Light
Metoclopramide	3.15 ng/ml	HPLC UV	Human Plasma	-20 °C	Normal Light
Metoprolol	15.0 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
α -OH-Metoprolol	1.62 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Metronidazole	91.2 ng/ml	HPLC UV	Human Plasma	-20 °C	Normal Light
MHPG	0.40 ng/ml	HPLC ECD	Human Plasma	-20 °C	Normal Light
Mianserin	1.67 ng/ml	HPLC ECD	Human Plasma	-20 °C	Normal Light
Midazolam	0.41 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
1-OH-Midazolam	0.08 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light

Validated Assay Methods

DRUG	LLOQ	TECHNIQUE	MATRIX	STORAGE TEMP	LIGHT SENSITIVITY
Miglitol	75.8 ng/ml	Spectrophotometric	Human Plasma	-70 °C	Light Sensitive
Milnacipram	1.25 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Minocycline	10.3 ng/ml	HPLC UV	Human Plasma	-20 °C	Normal Light
Mitotane	0.39 µg/ml	HPLC UV	Human Plasma	-20 °C	Normal Light
Molsidomine	0.84 ng/ml	HPLC UV	Human Plasma	-70 °C	Light Sensitive
Linsidomine	0.70 ng/ml	LC-MS/MS	Human Plasma	-70 °C	Light Sensitive
Moclobemide	3.74 ng/ml	GC ECD	Human Plasma	-20 °C	Light Sensitive
Monic Acid (mupirocin)	50.1 ng/ml	LC-MS/MS	Urine	-20 °C	Normal Light
Montelukast	3.91 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Light Sensitive
Morphine	0.50 ng/ml	RIA Radiometric	Human Plasma	-20 °C	Normal Light
Morphine-3-glucuronide	6.42 ng/ml	HPLC UV	Human Plasma	-20 °C	Normal Light
Morphine-6-glucuronide	3.64 ng/ml	HPLC UV	Human Plasma	-20 °C	Normal Light
Moxifloxacin	12.0 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Moxonidine	20.5 pg/ml	GC MS	Human Plasma	-20 °C	Normal Light
Mupirocin (Monic Acid)	20.0 ng/ml	LC-MS/MS	Urine	-20 °C	Light Sensitive
Mupirocin (Monic Acid)	0.5 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Light Sensitive
Nabumetone metabolite (6-MNA)	0.07 µg/ml	HPLC UV	Human Plasma	-20 °C	Normal Light
Naftidrofuryl	3.92 ng/ml	HPLC UV	Human Plasma	-20 °C	Normal Light
Naloxone-3-glucaronide	0.96 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light

Compounds that have active metabolites to be considered for analysis

Active metabolite of the molecule referenced above in bold

Validated Assay Methods

DRUG	LLOQ	TECHNIQUE	MATRIX	STORAGE TEMP	LIGHT SENSITIVITY
Naproxen	0.08 µg/ml	HPLC UV	Human Plasma	-20 °C	Normal Light
Naratriptan	0.08 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Natamycin	2.00 ng/ml	LC-MS/MS	Wine	-20 °C	Normal Light
Nevirapine	18.6 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
2-OH-Nevirapine	11.8 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
3-OH-Nevirapine	11.8 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
8-OH-Nevirapine	11.8 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
12-OH-Nevirapine	11.8 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
4-Carboxy-nevirapine	11.8 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Nicardipine	0.70 ng/ml	GC ECD	Human Plasma	-20 °C	Light Sensitive
Nicotine	0.47 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Light Sensitive
Cotinine	7.68 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Light Sensitive
Nifedipine	0.64 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Light sensitive
Nimesulide	3.76 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Light Sensitive
Nimodipine	0.59 ng/ml	GC ECD	Human Plasma	-20 °C	Light Sensitive
Nitisinone	19.5 ng/ml	LC-MS/MS	Human Plasma	-70 °C	Normal Light
Nitrofurantoin	0.78 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Light Sensitive
Nitroxoline	0.25 µg/ml	HPLC UV	Human Plasma	-20 °C	Normal Light
Nizatidine	11.9 ng/ml	HPLC UV	Human Plasma	-20 °C	Normal Light
Norfloxacin	25.9 ng/ml	HPLC Fluorescence	Human Plasma	-20 °C	Normal Light

Validated Assay Methods

DRUG	LLOQ	TECHNIQUE	MATRIX	STORAGE TEMP	LIGHT SENSITIVITY
Nortilidine	2.78 ng/ml	GC NPD	Human Plasma	-20 °C	Normal Light
Nortriptyline	0.94 ng/ml	GC NPD	Human Plasma	-20 °C	Normal Light
Ofloxacin	54.5 ng/ml	HPLC Fluorescence	Human Plasma	-20 °C	Light Sensitive
Olanzapine	0.16 ng/ml	LC-MS/MS	Human Plasma	-70 °C	Light Sensitive
Omeprazole	0.39 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
5-OH-omeprazole	0.39 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Ondansetron	0.26 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Opipramol	0.47 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Deshydroxyethylpipramol	0.12 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Orphenadrine	0.55 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Osteocalcin	2.40 ng/ml	ELISA	Human Serum	-70 °C	Normal Light
Oxcarbazepine	7.82 ng/ml	LC-MS/MS	Human Plasma	-70 °C	Light Sensitive
10-OH-Carbazepine	23.7 ng/ml	LC-MS/MS	Human Plasma	-70 °C	Light Sensitive
Oxaquin	10.3 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Oxfendazole	2.54 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Oxybutynin	0.06 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
PA-824	4.00 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Paclitaxel (Total)	20.0 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Paliperidone	0.12 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light

Compounds that have active metabolites to be considered for analysis

Active metabolite of the molecule referenced above in bold

Validated Assay Methods

DRUG	LLOQ	TECHNIQUE	MATRIX	STORAGE TEMP	LIGHT SENSITIVITY
Pantoprazole	5.38 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Paracetamol	60.2 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Paroxetine	0.33 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Perindopril	0.08 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Perindoprilat	0.17 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Phentermine	18.7 ng/ml	GC NPD	Human Plasma	-20 °C	Normal Light
Phenylbutyrate	0.49 µg/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Phenylephrine	9.00 pg/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Phenylpropanolamine	10.0 ng/ml	HPLC UV	Human Plasma	-20 °C	Normal Light
Phenytoin	40.0 ng/ml	HPLC UV	Human Plasma	-20 °C	Light Sensitive
Pipamperone	6.31 ng/ml	HPLC UV	Human Plasma	-70 °C	Normal Light
Piroxicam	1.24 ng/ml	HPLC UV	Human Plasma	-20 °C	Normal Light
Praziquantel	15.0 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Prazosin	0.46 ng/ml	HPLC Fluorescence	Human Plasma	-20 °C	Normal Light
Prednisone	3.18 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Light Sensitive
Prednisolone	2.59 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Light Sensitive
3,20-Pregnane-dione	0.46 ng/ml	GC MS	Human Plasma	-20 °C	Normal Light
Prilocane	0.20 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Progesterone	0.04 ng/ml	GC MS	Human Plasma	-20 °C	Normal Light
Proguanil	4.63 ng/ml	HPLC UV	Human Plasma	-20 °C	Normal Light

Validated Assay Methods

DRUG	LLOQ	TECHNIQUE	MATRIX	STORAGE TEMP	LIGHT SENSITIVITY
Promethazine	0.64 ng/ml	GC NPD	Human Plasma	-20 °C	Light Sensitive
Propranolol	3.50 ng/ml	HPLC UV	Human Plasma	-20 °C	Normal Light
Prostate Specific Antigen (PSA)	0.50 nmol/L	RIA Radiometric	Human Serum	-20 °C	Normal Light
Protrombin (F1+2)	0.04 nmol/l	ELISA	Human Plasma	-70 °C	Normal Light
Pseudoephedrine	1.56 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Pyrantel	15.0 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Pyrazinamide	60.0 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Quetiapine	0.12 µg/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
N-desalkyl Quetiapine	1.00 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Quinidine	80.0 ng/ml	HPLC Fluorescence	Human Plasma	-20 °C	Normal Light
Racecadotril (prodrug-thiorphan)	4.05 ng/ml	LC-MS/MS	Human Plasma	-70 °C	Light Sensitive
Ranitidine	14.6 ng/ml	HPLC UV	Human Plasma	-20 °C	Normal Light
Rifampicin	586 ng/ml	LC-MS/MS	Human Plasma	-70 °C	Normal Light
Desacetyl Rifampicin	13.7 ng/ml	LC-MS/MS	Human Plasma	-70 °C	Normal Light
Rilmenidine	0.21 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Light Sensitive
Risperidone	39.1 pg/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
9-OH risperidone	39.1 pg/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Roflumilast	1.16 ng/ml	GC MS	Human Plasma	-20 °C	Normal Light
Roxithromycin	50.3 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light

Compounds that have active metabolites to be considered for analysis

Active metabolite of the molecule referenced above in bold

Validated Assay Methods

DRUG	LLOQ	TECHNIQUE	MATRIX	STORAGE TEMP	LIGHT SENSITIVITY
Salbutamol (R- & S-)	25.0 pg/ml	LC-MS/MS	Human Plasma	-70 °C	Light Sensitive
Salmeterol	10.0 pg/ml	LC-MS/MS	Human Plasma	-70 °C	Normal Light
Desmethyl-selegiline	1.09 ng/ml	GC ECD	Human Plasma	-20 °C	Normal Light
Methamphetamine	1.15 ng/ml	GC ECD	Human Plasma	-20 °C	Normal Light
Scopolamine	2.0 pg/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Serotonin	0.20 ng/ml	LC-MS/MS	Human CSF	-20 °C	Normal light
5-HIAA	0.50 ng/ml	LC-MS/MS	Human CSF	-20 °C	Normal light
Sertraline	0.10 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Sibutramine	0.05 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Mono-N-desmethylsibutramine	0.05 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Di-N-desmethylsibutramine	0.10 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Spirolactone	0.47 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Canrenone	0.47 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
7α -thiomethylspirolactone	1.25 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Stavudine	5.76 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Sulindac	50.0 ng/ml	HPLC UV	Human Plasma	-20 °C	Normal Light
Sulphamethizole	0.52 μ g/ml	HPLC UV	Urine	-20 °C	Normal Light
Sulpiride	4.05 ng/ml	HPLC Fluorescence	Human Plasma	-20 °C	Normal Light
Sumatriptan	0.63 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
T3 (total)	0.30 ng/ml	LC-MS/MS	Human Plasma	-70 °C	Normal Light

Validated Assay Methods

DRUG	LLOQ	TECHNIQUE	MATRIX	STORAGE TEMP	LIGHT SENSITIVITY
T4 (total)	10.0 ng/ml	LC-MS/MS	Human Plasma	-70 °C	Normal Light
T4 Free	0.40 ng/ml	Abbott ARCHITECT	Serum/Plasma	-70 °C	Normal Light
Tacrolimus	0.06 ng/ml	LC-MS/MS	Whole Blood	-70 °C	Normal Light
Tamsulosin	29.3 pg/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
TBG	5.00 µg/ml	RIA	Serum/Plasma	-20 °C	Normal Light
Telmisartan	2.00 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Terazosin	0.58 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Terbinafine	3.32 ng/ml	HPLC UV	Human Plasma	-20 °C	Normal Light
Terfenadine Acid Metabolites	8.35 ng/ml	HPLC UV	Human Plasma	-20 °C	Normal Light
Testosterone	0.70 nmol/l	RIA Radiometric	Plasma/Serum	-20 °C	Normal Light
Tetracycline	43.3 ng/ml	HPLC UV	Human Plasma	-20 °C	Light Sensitive
Tissue Factor Pathway Inhibitor	0.64 ng/ml	ELISA	Human Plasma	-70 °C	Normal Light
Theophylline	10.0 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
3-methylxanthine	6.00 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Thiocolchicine (3-desmethyl)	0.39 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Thiorphan	4.05 ng/ml	LC-MS/MS	Human Plasma	-70 °C	Light Sensitive
Thrombin/Antithrombin (TAT)	2.00 µg/l	ELISA	Human Plasma	-70 °C	Normal Light
Tibolone	0.04 ng/ml	GC MS	Human Plasma	-20 °C	Normal Light
Ticlopidine	1.98 ng/ml	GC NPD	Human Plasma	-20 °C	Normal Light

Compounds that have active metabolites to be considered for analysis

Active metabolite of the molecule referenced above in bold

Validated Assay Methods

DRUG	LLOQ	TECHNIQUE	MATRIX	STORAGE TEMP	LIGHT SENSITIVITY
Timolol	12.6 ng/ml	HPLC UV	Human Plasma	-20 °C	Normal Light
Tolbutamide	0.40 µg/ml	HPLC UV	Human Plasma	-20 °C	Normal Light
Tolterodine	46.9 pg/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Topiramate	46.9 ng/ml	LC-MS/MS	Human Plasma	-70 °C	Normal Light
Tramadol (R- & S-)	3.00 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
O-desmethyltramadol (R- & S-)	0.79 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Tranexamic acid	0.11 µg/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Trazodone	7.75 ng/ml	LC-MS/MS	Human Plasma	-70 °C	Normal Light
m-chlorophenylpiperazine	0.23 ng/ml	LC-MS/MS	Human Plasma	-70 °C	Normal Light
Triamterene	2.50 ng/ml	HPLC Fluorescence	Human Plasma	-20 °C	Normal Light
p-OH-Triamterene	30.5 ng/ml	HPLC Fluorescence	Human Plasma	-20 °C	Normal Light
Triazolam	0.20 ng/ml	GC NPD	Human Plasma	-20 °C	Normal Light
Trimetazidine	1.52 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Trimipramine	0.12 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Thyroid Stimulating Hormone	0.01 µIU/ml	Abbott ARCHITECT	Serum/Plasma	-70 °C	Normal Light
Ulifloxacin	0.10 mg/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Ulifloxacin	0.10 mg/ml	LC-MS/MS	Urine	-20 °C	Normal Light
Urapidil	13.3 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Valacyclovir	1.58 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Valsartan	24.5 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light

Validated Assay Methods

DRUG	LLOQ	TECHNIQUE	MATRIX	STORAGE TEMP	LIGHT SENSITIVITY
Venlafaxine	0.63 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
O-desmethylenlafaxine	0.79 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Verapamil	4.02 ng/ml	HPLC Fluorescence	Human Plasma	-20 °C	Normal Light
Norverapamil	2.01 ng/ml	HPLC Fluorescence	Human Plasma	-20 °C	Normal Light
Von Willebrand Factor	5.50%	ELISA	Human Plasma	-70 °C	Normal Light
Warfarin (R- & S-)	11.8 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
7-hydroxywarfarin	5.88 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Zidovudine	20.0 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Zolmitriptan	62.5 pg/ml	LC-MS/MS	Human Plasma	-70 °C	Normal Light
N-desmethylozmilriptan	7.81 pg/ml	LC-MS/MS	Human Plasma	-70 °C	Normal Light
Zolpidem	1.98 ng/ml	HPLC Fluorescence	Human Plasma	-20 °C	Normal Light
Zonisamide	14.0 ng/ml	LC-MS/MS	Human Plasma	-20 °C	Normal Light
Zopiclone	4.06 ng/ml	HPLC UV	Human Plasma	-20 °C	Normal Light

Compounds that have active metabolites to be considered for analysis

Active metabolite of the molecule referenced above in bold

We are always available for a conversation.

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