



Bioanalytical Assay List (Mass Spectrometry)

Compound (Metabolite)	Bioanalytical Method	Calibration Range	Bioanalytical matrix	Class
(-)-Donepezil; (+)-Donepezil	LC/MS/MS	50 -10000 pg/mL; 100 -20000 pg/mL	Human Sodium Heparinized Plasma	Central Nervous System Agents
(-)-Donepezil; (+)-Donepezil	LC/MS/MS	100-20000 pg/mL; 100 -20000 pg/mL	Human Sodium Heparinized Plasma	Central Nervous System Agents
(-)-Nebivolol; (+)-Nebivolol	LC/MS/MS	10-2500 pg/mL	Human EDTA Plasma	Cardiovascular
(-)-Paliperidone; (+)-Paliperidone	LC/MS/MS	50-10000 pg/mL	Human EDTA Plasma	Antipsychotic
(-)-R-Lercanidipine; (+)-S-Lercanidipine	LC/MS/MS	25-10000 pg/mL; 50-15000 pg/mL	Human EDTA Plasma	Cardiovascular
(+)-3R,5S-Fluvastatin; (-)-3S,5R-Fluvastatin	LC/MS/MS	1-250 ng/mL	Human EDTA Plasma	Cardiovascular
(+)-3R,5S-Fluvastatin; (-)-3S,5R-Fluvastatin	LC/MS/MS	0.5-150 ng/mL	Human EDTA Plasma	Cardiovascular
1,4-Diaminobutane (1,4DAB)	LC/MS/MS	2.5-50 ng/mL	Human Serum	Miscellaneous
17-Desacetylnorgestimate	LC/MS/MS	100-5000 pg/mL	Human EDTA Plasma	Endocrinology
17-Desacetylnorgestimate	LC/MS/MS	50-3000 pg/mL	Human EDTA Plasma	Endocrinology
17 α -Methyltestosterone	LC/MS/MS	50-50000 pg/mL	Human EDTA Plasma	Endocrinology
1-Alpha,25 Dihydroxyvitamin D2	LC/MS/MS	2-50 pg/ml	Human EDTA Plasma	Vitamin D
2-Mercaptoethanesulfonic Acid (MESNA); 2,2-Dithiobis-Ethanesulfonic Acid (DIMESNA)	LC/MS/MS	40-10000 ng/mL; 500-250000 ng/mL	Human Buffered Plasma	Miscellaneous
2-Mercaptoethanesulfonic Acid (MESNA); 2,2-Dithiobis-Ethanesulfonic Acid (DIMESNA)	LC/MS/MS	6.25-625 ng/mL; 2.5-250 ng/mL	Human Buffered Plasma	Miscellaneous
2-Mercaptoethanesulfonic Acid (MESNA); 2,2-Dithiobis-Ethanesulfonic Acid (DIMESNA)	LC/MS/MS	10-8000 ng/mL; 25-20000 ng/mL	Human Urine	Miscellaneous
2-Pyridylacetic Acid	LC/MS/MS	2-1000 ng/mL	Human EDTA Plasma	Miscellaneous
3-Alpha-Hydroxytibilone	LC/MS/MS	100-40000 pg/mL	Human EDTA Plasma	Endocrinology
4-beta-hydroxy cholesterol	GC/MS/MS	2.5-200 ng/mL	Human EDTA Plasma	Cardiovascular

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5-Aminosalicylic Acid (5-ASA)	LC/MS/MS	100-100000 pg/mL	Human EDTA Plasma	Pain
5-Aminosalicylic Acid (5-ASA)	LC/MS/MS	1-800 ng/mL	Human EDTA Plasma	Pain
5-Aminosalicylic Acid (5-ASA)	LC/MS/MS	2.5-2500 ng/mL	Human EDTA Plasma	Pain
5-Aminosalicylic Acid (5-ASA); 5-Acetylamino-salicylic Acid (5-ACASA)	LC/MS/MS	5-5000 ng/mL; 5-5000 ng/mL	Human EDTA Plasma	Pain
5-Methyltetrahydrofolic Acid	LC/MS/MS	0.1-100 ng/mL	Human Serum	Miscellaneous
5-Methyltetrahydrofolic Acid	LC/MS/MS	0.5-100 ng/mL	Human Lithium Heparinized Plasma	Miscellaneous
6-Beta-Naltrexol	LC/MS/MS	100-140000 pg/mL	Human EDTA Plasma	Alcohol Dependence
6-Mercaptopurine	LC/MS/MS	1-100 ng/mL	Human EDTA Plasma	Oncology
6-Mercaptopurine	LC/MS/MS	2-200 ng/mL	Human EDTA Plasma	Oncology
7-Aminoclonazepam	LC/MS/MS	200-100000 pg/mL	Human EDTA Plasma	Central Nervous System Agents
Abiraterone	LC/MS/MS	200-200000 pg/mL	Human EDTA Plasma	Oncology
Abiraterone	LC/MS/MS	400-400000 pg/mL	Human EDTA Plasma	Oncology
Acamprosate	LC/MS/MS	0.5-200 ng/mL	Human EDTA Plasma	Central Nervous System Agents
Aceclofenac	LC/MS/MS	20-20000 ng/mL	Human EDTA Plasma	Pain
Acetaminophen	LC/MS/MS	100-10000 ng/mL	Human EDTA Plasma	Pain
Acetyl Salicylic Acid	LC/MS/MS	5-625 ng/mL	Human Buffered EDTA Plasma	Pain
Acetyl Salicylic Acid; Salicylic Acid	LC/MS/MS	20-10000 ng/mL; 100-40000 ng/mL	Human Buffered EDTA Plasma	Pain
Acetyl Salicylic Acid; Salicylic Acid	LC/MS/MS	40-20000 ng/mL; 200-80000 ng/mL	Human Buffered EDTA Plasma	Pain
Acetyl Salicylic Acid; Salicylic Acid	LC/MS/MS	5-5000 ng/mL; 75-7500 ng/mL	Human Buffered EDTA Plasma	Pain

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Acyclovir	LC/MS/MS	20-8000 ng/mL	Human EDTA Plasma	Infectious Disease
Acyclovir	LC/MS/MS	5-1000 ng/ml	Human EDTA Plasma	Infectious Disease
Acyclovir	LC/MS/MS	500-40000 pg/ml	Human EDTA Plasma	Infectious Disease
Acyclovir	LC/MS/MS	20-1600 pg/ml	Human EDTA Plasma	Infectious Disease
Acyclovir	LC/MS/MS	0.5-40 ng/ml	Human Urine	Infectious Disease
Adefovir	LC/MS/MS	0.1-50 ng/mL	Human EDTA Plasma	Infectious Disease
Adefovir; tenofovir; entecavir; telbivudine; tenofovir alafenamide	LC/MS/MS	0.5-100 ng/mL; 1-500 ng/mL; 0.2-50 ng/mL; 50-10000 ng/mL; 0.05-25 ng/mL	Human EDTA Plasma	Infectious Disease
Afatinib	LC/MS/MS	100-80000 pg/mL	Human EDTA Plasma	Oncology
Albendazole ; Albendazole sulfoxide	LC/MS/MS	200-200000 pg/mL; 2-2000 ng/mL	Human EDTA Plasma	Anthelmintic drug
Albuterol	LC/MS/MS	5-2000 pg/mL	Human EDTA Plasma	Bronchodilator
Alendronic Acid	LC/MS/MS	100-50000 pg/mL	Human EDTA Plasma	Endocrinology, Rheumatology
Alendronic Acid	LC/MS/MS	1-1000 ng/mL	Human Urine	Endocrinology, Rheumatology
Aliskiren	LC/MS/MS	1-500 ng/mL	Human EDTA Plasma	Cardiovascular
Allopurinol; Oxypurinol	LC/MS/MS	25-2000 ng/mL; 100-25000 ng/mL	Human EDTA Plasma	Antigout Drugs
Allopurinol; Oxypurinol	LC/MS/MS	40-20000 ng/mL; 1-200 µg/mL	Human Urine	Antigout Drugs
Almotriptan	LC/MS/MS	0.2-100 ng/mL	Human EDTA Plasma	Antimigraine
Alprazolam	LC/MS/MS	0.25-50 ng/mL	Human EDTA Plasma	Central Nervous System Agents
Alvimopan; ADL 08-0011	LC/MS/MS	100-20000 pg/mL; 0.5-100 ng/mL	Human EDTA Plasma	Gastrointestinal
Alvociclib	LC/MS/MS	2-2000 ng/mL	Human EDTA Plasma	Oncology
Ambroxol	LC/MS/MS	1-250 ng/mL	Human EDTA Plasma	Respiratory

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Amiodarone; Desethylamiodarone	LC/MS/MS	10-25000 ng/mL; 0.5-200 ng/mL	Human EDTA Plasma	Cardiovascular
Amiodarone; Desethylamiodarone	LC/MS/MS	5-2000 ng/mL; 0.5-200 ng/mL	Human EDTA Plasma	Cardiovascular
Amisulpride	LC/MS/MS	1-500 ng/mL	Human EDTA Plasma	Central Nervous System Agents
Amlodipine	LC/MS/MS	50-10000 pg/mL	Human EDTA Plasma	Cardiovascular
Amlodipine	LC/MS/MS	25-10000 pg/mL	Human Lithium Heparinized Plasma	Cardiovascular
Amoxicillin	LC/MS/MS	40-20000 ng/mL	Human EDTA Plasma	Infectious Disease
d-Amphetamine; l-Amphetamine	LC/MS/MS	0.2-50; 0.4-100 ng/mL	Human EDTA Plasma	Central Nervous System Agents
Amphotericin B Non-Liposomal	LC/MS/MS	20-2000 ng/mL	Human EDTA Plasma	Antibiotic
Amphotericin B total	LC/MS/MS	100-100000 ng/mL	Human EDTA Plasma	Antibiotic
Amphotericin B Liposomal	LC/MS/MS	100-100000 ng/mL	Human EDTA Plasma	Antibiotic
Anagrelide	LC/MS/MS	20-5000 pg/mL	Human EDTA Plasma	Cardiovascular
3-OH Anagrelide	LC/MS/MS	50-5000 pg/mL	Human EDTA Plasma	Cardiovascular
Anastrozole	LC/MS/MS	100-40000 pg/mL	Human EDTA Plasma	Oncology
Apixaban	LC/MS/MS	1-500 ng/mL	Human EDTA Plasma	Cardiovascular
Apomorphine	LC/MS/MS	10-10000 pg/mL	Human EDTA Plasma	Central Nervous System Agents
Apomorphine	LC/MS/MS	100-200000pg/mL	Rabbit Plasma	Central Nervous System Agents
Apremilast	LC/MS/MS	1-1000 ng/mL	Human EDTA Plasma	Psoriasis
Aprepitant	LC/MS/MS	20-4000 ng/mL	Human EDTA Plasma	Gastrointestinal
Aripiprazole	LC/MS/MS	0.50-200 ng/mL	Human EDTA Plasma	Central Nervous System Agents

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Aripiprazole;Dehydro-aripiprazole	LC/MS/MS	500-100000 pg/mL;50-10000 pg/mL	Human EDTA Plasma	Central Nervous System Agents
Armodafinil	LC/MS/MS	20-10000 ng/mL	Human EDTA Plasma	Central Nervous System Agents
Atazanavir	LC/MS/MS	2-2000 ng/mL	Human EDTA Plasma	Infectious Disease
Atazanavir	LC/MS/MS	10-10000 ng/mL	Human EDTA Plasma	Infectious Disease
Atenolol	LC/MS	5-1000 ng/mL	Human Sodium Heparinized Plasma	Cardiovascular
Atomoxetine	LC/MS/MS	2-1000 ng/mL	Human EDTA Plasma	Central Nervous System Agents
Atorvastatin; O-Hydroxy-Atorvastatin; P-Hydroxy-Atorvastatin	LC/MS/MS	0.25-100 ng/mL; 0.25-100 ng/mL; 0.25-20 ng/mL	Human EDTA Plasma	Cardiovascular
Atorvastatin; O-Hydroxy-Atorvastatin; P-Hydroxy-Atorvastatin	LC/MS/MS	50-50000 pg/mL; 50-50000 pg/mL; 50-5000 pg/mL	Human EDTA Plasma	Cardiovascular
Atorvastatin; O-Hydroxy-Atorvastatin; P-Hydroxy-Atorvastatin	LC/MS/MS	10-50000 pg/mL; 25-50000 pg/mL; 25-5000 pg/mL	Human EDTA Plasma	Cardiovascular
Atorvastatin; O-Hydroxy-Atorvastatin; P-Hydroxy-Atorvastatin	LC/MS/MS	0.25-100 ng/mL; 0.25-100 ng/mL; 0.25-100 ng/mL	Rabbit Heparin Plasma	Cardiovascular
Atorvastatin; O-Hydroxy-Atorvastatin; P-Hydroxy-Atorvastatin; Atorvastatin lactone	LC/MS/MS	0.25-100 ng/mL; 0.25-100 ng/mL; 0.25-100 ng/mL;0.25-100 ng/mL	Human EDTA Plasma	Cardiovascular
Atovaquone	LC/MS/MS	25-25000 ng/mL	Human EDTA Plasma	Infectious Disease
Azelastine; N-Desmethyl Azelastine	LC/MS/MS	2-500 pg/mL; 2-500 pg/mL	Human EDTA Plasma	Respiratory
Azithromycin	LC/MS/MS	0.5-500 ng/mL	Human EDTA Plasma	Infectious Disease
Azithromycin	LC/MS/MS	1-1000 ng/mL	Human EDTA Plasma	Infectious Disease
Baclofen	LC/MS/MS	2-800 ng/mL	Human EDTA Plasma	Central Nervous System Agents
Balsalazide	LC/MS/MS	1-500 ng/mL	Human EDTA Plasma	Gastrointestinal
Benazepril; Benazeprilat	LC/MS/MS	3-1500 ng/mL	Human EDTA Plasma	Cardiovascular

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Benazepril; Benazeprilat	LC/MS/MS	2-1000 ng/mL	Human EDTA Plasma	Cardiovascular
Benazepril; Benazeprilat	LC/MS/MS	200-100000 pg/mL; 500-250000 pg/mL	Human EDTA Plasma	Cardiovascular
Bendroflumethiazide	LC/MS/MS	100-100000 pg/mL	Human NaF/K ₂ C ₂ O ₄ Plasma	Cardiovascular
Benserazide	LC/MS/MS	0.4-10 ng/mL	Human EDTA Plasma	Central Nervous System Agents
Benserazide	LC/MS/MS	5-2500 ng/mL	Human EDTA Plasma	Central Nervous System Agents
Benserazide	LC/MS/MS	0.4-10 ng/mL	Dog EDTA Plasma	Central Nervous System Agents
Betamethasone	LC/MS/MS	5-5000 pg/mL	Human NaF-Na ₂ EDTA plasma	Immunology
Betamethasone	LC/MS/MS	50-10000 pg/mL	Human EDTA Plasma	Immunology
Betamethasone	LC/MS/MS	0.5 - 100 ng/mL	Human EDTA Plasma	Immunology
Betamethasone 17,21-Dipropionate	LC/MS/MS	5-5000 pg/mL	Human NaF-Na ₂ EDTA plasma	Immunology
Betamethasone 17-propionate	LC/MS/MS	5-5000 pg/mL	Human NaF-Na ₂ EDTA plasma	Immunology
Betamethasone Acetate	LC/MS/MS	5-500 pg/mL	Human EDTA Plasma	Immunology
Betamethasone Phosphate	LC/MS/MS	2.5 - 500 ng/mL	Human EDTA Plasma	Immunology
Betamethasone; Betamethasone Acetate	LC/MS/MS	0.5 - 50 ng/mL	Human EDTA Plasma	Immunology
Beta-sitosterol; Campesterol; Stigmasterol	LC/MS/MS	100-5000 ng/mL; 100-5000 ng/mL; 10-500 ng/mL	Human EDTA Plasma	Cardiovascular
Bexarotene	LC/MS/MS	1-400 ng/mL	Human EDTA Plasma	Oncology
Bicalutamide	LC/MS	10-1250 ng/mL	Human EDTA Plasma	Oncology
Bismuth	ICP/MS	2-50 ng/ml	Human EDTA Plasma	Gastrointestinal
Bismuth	ICP/MS	2-100 ng/ml	Human EDTA whole blood	Gastrointestinal

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Bisoprolol	LC/MS/MS	0.2-100 ng/mL	Human EDTA Plasma	Cardiovascular
Bivalirudin	LC/MS/MS	5-5000 ng/mL	Human Sodium Citrate Plasma	Antithrombotic
Bivalirudin	LC/MS/MS	200-100000 pg/mL	Human Sodium Citrate Plasma	Antithrombotic
Bosentan	LC/MS/MS	2.5-5000 ng/ml	Human EDTA Plasma	Cardiovascular
Brexpiprazole	LC/MS/MS	0.5-200 ng/mL	Human EDTA Plasma	Antipsychotic
Brompheniramine	LC/MS/MS	100-50000 pg/mL	Human EDTA Plasma	Respiratory
Budesonide	LC/MS/MS	8-4000 pg/mL	Human EDTA Plasma	Endocrine-Metabolic Agent
Buprenorphine; Norbuprenorphine	LC/MS/MS	40-16000 pg/mL; 20-8000 pg/mL	Human EDTA Plasma	Pain
Buprenorphine; Norbuprenorphine	LC/MS/MS	20-4000 pg/mL; 20-4000 pg/mL	Human EDTA Plasma	Pain
Buprenorphine; Norbuprenorphine	LC/MS/MS	20-4000 pg/mL; 10-1000 pg/mL	Human EDTA Plasma	Pain
Buprenorphine; Oxycodone	LC/MS/MS	25-12500 pg/mL; 100-50000 pg/mL	Human EDTA Plasma	Pain
Buprenorphine; Naloxone; 6β-Naloxol; Oxycodone	LC/MS/MS	0.025-12.5 ng/mL; 0.01-5 ng/mL; 0.01-5 ng/mL; 0.1-50 ng/mL	Human EDTA Plasma	Pain
Bupropion; Hydroxybupropion	LC/MS/MS	0.2-200 ng/mL; 0.6-600 ng/mL	Human EDTA Plasma	Central Nervous System Agents
Bupropion; Hydroxybupropion; Erythrohydroxybupropion; Threohydroxybupropion	LC/MS/MS	1-500 ng/mL; 5-5000 ng/mL; 1-500 ng/mL; 5-2500 ng/mL	Human EDTA Plasma	Central Nervous System Agents
Cabergoline	LC/MS/MS	1-80 pg/mL	Human EDTA Plasma	Central Nervous System Agents
Cabergoline	LC/MS/MS	50-15000 pg/mL	Rabbit EDTA Plasma	Central Nervous System Agents
Caffeine; Paracetamol	LC/MS/MS	20-8000pg/mL; 50-10000 pg/mL	Human EDTA Plasma	Pain
Calcitriol (1,25-Dihydrovitamin-D3)	LC/MS/MS	20-400 pg/mL	Human EDTA Plasma	Rheumatology
Calcitriol (1,25-Dihydrovitamin-D3)	LC/MS/MS	10-500 pg/mL	Mini-Pig EDTA Plasma	Rheumatology

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Compound (Metabolite)	Bioanalytical Method	Calibration Range	Bioanalytical matrix	Class
Calcium; Magnesium; Phosphorus	ICP/MS	10-500 ug/mL; 10-500 ug/mL: 50-2500 ug/mL	Human Urine	Biomarkers
Calcium; Magnesium; Phosphorus	ICP/MS	30-1500 ug/mL; 5-250 ug/mL; 30-1500 ug/mL	Human Serum	Biomarkers
Cannabidiol (CBD)	LC/MS/MS	25-25000 pg/mL	Human EDTA Plasma	Pain
7-Nor-7-carboxycannabidiol (7-COOH-CBD)	LC/MS/MS	0.25-250 ng/mL	Human EDTA Plasma	Pain
Cannabigerol	LC/MS/MS	50-50000 pg/mL	Human EDTA Plasma	Pain
Candesartan	LC/MS/MS	0.5-250 ng/mL	Human EDTA Plasma	Cardiovascular
Candesartan	LC/MS/MS	1-500 ng/mL	Human EDTA Plasma	Cardiovascular
Capecitabine	LC/MS/MS	10-10000 ng/mL	Human EDTA Plasma	Oncology
Capecitabine; 5-Fluorouracil	LC/MS/MS	10-5000 ng/mL; 2-1000 ng/mL	Human EDTA Plasma	Oncology
Captisol	LC/MS/MS	1-250 ug/mL	Human EDTA Plasma	TBD
Carbamazepine	LC/MS/MS	50-5000 ng/mL	Human EDTA Plasma	Central Nervous System Agents
Carbamazepine; 10,11-Epoxy Carbamazepine	LC/MS/MS	50-10000 ng/mL; 10-2000 ng/mL	Human EDTA Plasma	Central Nervous System Agents
Carboplatin Free	ICP/MS	100-40000ng/mL	Human EDTA Plasma	Antineoplastic
Carboplatin Total	ICP/MS	100-40000ng/mL	Human EDTA Plasma	Antineoplastic
Carboplatin; cisplatin	ICP/MS	100-40000ng/mL	Human Serum	Oncology
Carboplatin; cisplatin	ICP/MS	1-100 µg/mL	Human EDTA Plasma	Oncology
Carfilzomib	LC/MS/MS	10-100000 ng/mL	Human EDTA Plasma	Oncology
Carisoprodol; Meprobamate	LC/MS/MS	30-3000 ng/mL	Human EDTA Plasma	Central Nervous System Agents
Carvedilol; 4'-Hydroxyphenylcarvedilol	LC/MS/MS	250-100000 pg/mL; 50-10000 pg/mL	Human EDTA Plasma	Cardiovascular

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Cefaclor	LC/MS/MS	50-25000 ng/mL	Human EDTA Plasma	Infectious Disease
Cefadroxil	LC/MS/MS	200-40000 ng/mL	Human EDTA Plasma	Infectious Disease
Cefdinir	LC/MS/MS	25-5000 ng/mL	Human Na Heparin Plasma	Infectious Disease
Cefixime	LC/MS/MS	20-10000 ng/mL	Human EDTA Plasma	Infectious Disease
Cefpodoxime	LC/MS/MS	20-5000 ng/mL	Human EDTA Plasma	Infectious Disease
Cefprozil (Z)-Isomer; Cefprozil (E)-Isomer	LC/MS/MS	100-20000 ng/mL (Z); 11 - 2220 ng/mL (E)	Human EDTA Plasma	Infectious Disease
Celecoxib	LC/MS/MS	5-3000 ng/mL	Human EDTA Plasma	Pain
Celecoxib	LC/MS/MS	1-1000 ng/mL	Human EDTA Plasma	Pain
Cephalexin	LC/MS/MS	100-50000 ng/mL	Human EDTA Plasma	Infectious Disease
Cephalexin	LC/MS/MS	5-5000 ug/mL	Human Urine	Infectious Disease
Cetirizine	LC/MS	2-200 ng/mL	Human EDTA Plasma	Respiratory
Chlormadinone Acetate; 3-Hydroxy Chlormadinone Acetate	LC/MS/MS	50-5000 pg/mL	Human EDTA Plasma	Endocrinology
Chlormadinone Acetate	LC/MS/MS	25-5000 pg/mL	Human EDTA Plasma	Endocrinology
Chlorpheniramine	LC/MS/MS	0.2-100 ng/mL	Human EDTA Plasma	Respiratory
Cholecalciferol	LC/MS/MS	0.5-50 ng/mL	Human EDTA Plasma	Vitamin D
Ciclopirox	LC/MS/MS	50-5000 pg/mL	Human EDTA Plasma	Infectious Disease
Cilostazol	LC/MS/MS	5-1500 ng/mL	Human EDTA Plasma	Cardiovascular
Cilostazol; OPC-13213; OPC-13015	LC/MS/MS	5-1500 ng/mL; 1-100ng/mL; 2-200 ng/mL	Human EDTA Plasma	Cardiovascular
Cilostazol; OPC-13213; OPC-13015	LC/MS/MS	2-500 ng/mL; 1-50ng/mL; 2-100 ng/mL	Human EDTA Plasma	Cardiovascular

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Cinacalcet	LC/MS/MS	100-50000 pg/mL	Human EDTA Plasma	Rheumatology
Ciprofloxacin	LC/MS/MS	20-5000 ng/mL	Human EDTA Plasma	Infectious Disease
Cisapride; Norcisapride	LC/MS/MS	0.5-200 ng/mL	Human EDTA Plasma	Gastrointestinal
Cisplatin	ICP/MS	0.2-20 µg/mL	Human EDTA Plasma	Oncology
Cisplatin Free	ICP/MS	40-8000 ng/mL	Human EDTA Plasma	Antineoplastic
Citalopram	LC/MS/MS	0.2-100 ng/mL	Human EDTA Plasma	Central Nervous System Agents
Citrate	LC/MS/MS	10-2000 ug/mL	Human Urine	Biomarker
Citrulline	LC/MS/MS	150 - 10000 ng/mL	Human EDTA Plasma	TBD
Clarithromycin	LC/MS/MS	20-5000 ng/mL	Human EDTA Plasma	Infectious Disease
Clarithromycin; 14-hydroxy Clarithromycin	LC/MS/MS	2.5-2500 ng/mL; 2-2000 ng/mL	Human EDTA Plasma	Infectious Disease
Clavulanic Acid	LC/MS/MS	40-4000 ng/mL	Human EDTA Plasma	Infectious Disease
Clindamycin	LC/MS/MS	10-5000 ng/mL	Human EDTA Plasma	Infectious Disease
Clobazam	LC/MS/MS	1-1000 ng/mL	Human EDTA Plasma	Central Nervous System Agents
Clomiphene Cis (Z) and Trans (E) Isomers	LC/MS/MS	100-20000 pg/mL; 50-10000 pg/mL	Human EDTA Plasma	Endocrinology
Clonazepam	LC/MS/MS	100-50000 ng/mL	Human EDTA Plasma	Central Nervous System Agents
Clonidine	LC/MS/MS	10-10000 pg/mL	Goat EDTA Plasam	Cardiovascular
Clonidine	LC/MS/MS	10-400 pg/mL	Human EDTA Plasma	Cardiovascular
Clonidine	LC/MS/MS	20-20000 pg/mL	Rat EDTA Plasma	Cardiovascular
Clopidogrel	LC/MS/MS	0.2 - 80 ng/mL	Human EDTA Plasma	Cardiovascular
Clopidogrel	LC/MS/MS	50 - 20000 pg/mL	Human EDTA Plasma	Cardiovascular

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Clopidogrel	LC/MS/MS	5-2500 pg/mL	Human EDTA Plasma	Cardiovascular
Clopidogrel Carboxylic Acid	LC/MS/MS	4-4000 ng/mL	Human EDTA Plasma	Cardiovascular
Clopidogrel Carboxylic Acid	LC/MS/MS	15-7500 ng/mL	Rat EDTA Plasma	Cardiovascular
Cloxacillin	LC/MS/MS	50-20000 ng/ml	Human EDTA Plasma	Anti-Infective
Clozapine	LC/MS/MS	40-4000 ng/mL	Human EDTA Plasma	Central Nervous System Agents
Clozapine; N-Desmethyloclozapine	LC/MS/MS	2-1000 ng/mL; 1-500 ng/mL	Human EDTA Plasma	Central Nervous System Agents
Cocaine; Benzoylcegonine	LC/MS/MS	5-500 ng/mL; 10-1000 ng/mL	Human EDTA Plasma	Miscellaneous
Cocaine; benzoylcegonine; ecgonine methylester	LC/MS/MS	5-2500 ng/mL; 100-50000 ng/mL; 50-25000 ng/mL	Human Urine	Miscellaneous
Codeine; Norcodeine; Codeine-6-Glucuronide	LC/MS/MS	0.5-100 ng/mL; 2-400 ng/mL; 2-400 ng/mL	Human EDTA Plasma	Miscellaneous
Colchicine	LC/MS/MS	40-10000 pg/mL	Human EDTA Plasma	Rheumatology
Cortisol	LC/MS/MS	1-400 ng/mL	Human EDTA Plasma	Endocrinology
Cortisol	LC/MS/MS	2 - 800 ng/mL	Human EDTA Plasma	Endocrinology
Creatinine	LC/MS/MS	500-10000 ug/mL	Human Urine	Biomarkers
Cyclobenzaprine glucuronide	LC/MS/MS	50-10000 pg/mL	Human Urine	Pain
Cyclobenzaprine; Norcyclobenzaprine	LC/MS/MS	50-12500 pg/mL; 5-2500 pg/mL	Human EDTA Plasma	Pain
Cyclosporin A	LC/MS/MS	2-1000 ng/mL	Human EDTA Whole Blood	Immunology
Cyproterone Acetate	LC/MS/MS	100-50000 pg/mL	Human EDTA Plasma	Endocrinology
Cytarabine	LC/MS/MS	250-250000 pg/mL	Human EDTA Plasma	Oncology
Cytarabine; ARA-U	LC/MS/MS	1-100 µg/mL; 100-10000 ng/mL	Rat EDTA Plasma	Oncology

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Dabigatran Total	LC/MS/MS	1-800 ng/mL	Human EDTA Plasma	Anticoagulant
Dabigatran Unconjugated	LC/MS/MS	0.2-100 ng/mL	Human EDTA Plasma	Anticoagulant
Daclatasvir	LC/MS/MS	10-4000 ng/mL	Human EDTA Plasma	Infectious Disease
Dalfampridine	LC/MS/MS	300-150000 pg/mL	Human EDTA Plasma	TBD
Dapsone	LC/MS/MS	5-4000 ng/mL	Human NaF/K ₂ C ₂ O ₄ Plasma	Antibacterial (For Leprosy)
Darifenacin	LC/MS/MS	20-10000 pg/mL	Human Plasma	Genitourinary
Darunavir	LC/MS/MS	20-20000 ng/mL	Human Plasma	Infectious Disease
Dasatinib	LC/MS/MS	0.25-250 ng/mL	Human EDTA Plasma	Oncology
Daunorubicin; Daunorubicinol	LC/MS/MS	2-800 ng/mL; 2-200 ng/mL	Rat EDTA Plasma	Oncology
Deferasirox	LC/MS/MS	50-25000 ng/mL	Human Sodium Heparinized Plasma	Antidote (Heavy Metal Chelator)
Descarboethoxy Loratadine; 3-Hydroxy Desloratadine	LC/MS/MS	25-5000 pg/mL; 25-2500 pg/mL	Human EDTA Plasma	Respiratory
Desipramine	GC/MS/MS	0.5 - 100 ng/mL	Human Heparin Plasma	TBD
Dexamethasone	LC/MS/MS	10-1000 pg/mL	Human EDTA Plasma	Immunology
Dexlansoprazole	LC/MS/MS	2-2000 ng/mL	Human EDTA Plasma	Gastrointestinal
Dexmedetomidine	LC/MS/MS	30-3000 pg/ml	Human Lithium Heparinized Plasma	Central Nervous System Agents
Dextroamphetamine (achiral)	LC/MS/MS	100-20000 pg/mL	Human EDTA Plasma	Central Nervous System Agents
Dextromethorphan; Dextrophan	LC/MS/MS	100-100000 pg/mL; 50-25000 pg/mL	Human Urine	Antitussive
Dextromethorphan; Dextrophan	LC/MS/MS	0.05 - 20 ng/mL; 1 - 400 ng/mL	Human Heparin Plasma	Antitussive

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Compound (Metabolite)	Bioanalytical Method	Calibration Range	Bioanalytical matrix	Class
Dextromethorphan; Dextrorphan	LC/MS/MS	20 - 20000 pg/mL; 400 - 400000 pg/mL	Human Heparin Plasma	Antitussive
Dextromethorphan; Dextrorphan	LC/MS/MS	50 - 7500 ng/mL; 50 - 7500 ng/mL	Human Urine	Antitussive
Dextromethorphan; Free Dextrorphan	LC/MS/MS	50-50000pg/mL	Human EDTA Plasma	Antitussive
Dextromethorphan; Total Dextrorphan	LC/MS/MS	0.0200 – 20.0 ng/mL; 0.400 – 400 ng/mL	Human Sodium Heparinized Plasma	Antitussive
Dextrorphan Glucuronide	LC/MS/MS	800-800000 pg/mL	Human EDTA Plasma	Antitussive
Dextrorphan Glucuronide	LC/MS/MS	8-8000 ng/mL	Human EDTA Plasma	Antitussive
Diazepam	LC/MS/MS	4-400 ng/mL	Human EDTA Plasma	Central Nervous System Agents
Diazepam; nordiazepam	LC/MS/MS	1-1000 ng/mL; 100-100000 pg/mL	Human EDTA Plasma	Central Nervous System Agents
Diclofenac	LC/MS/MS	50-20000 pg/mL	Human EDTA Plasma	Pain
Diclofenac	LC/MS/MS	5-5000 ng/mL	Human EDTA Plasma	Pain
Didanosine	LC/MS/MS	25-2500 ng/mL	Human EDTA Plasma	Infectious Disease
Dienogest	LC/MS/MS	1-160 ng/mL	Human EDTA Plasma	Oncology
Diflunisal	LC/MS/MS	0.4-200ug/mL	Human EDTA Plasma	Analgesic, Anti-Inflammatory
Digoxin	LC/MS/MS	2-200 ng/mL	Human Urine	Cardiovascular
Digoxin	LC/MS/MS	10-10000 pg/mL	Human EDTA Plasma	Cardiovascular
Dihydroergotamine	LC/MS/MS	10-2000 pg/mL	Human EDTA Plasma	Pain
Diltiazem, N-Desmethyldiltiazem; Desacetyldiltiazem	LC/MS/MS	2-400 ng/mL; 0.5-100 ng/mL; 0.5-100 ng/mL	Human EDTA Plasma	Cardiovascular
Diltiazem	LC/MS/MS	200-100000 pg/mL	Human EDTA Plasma	Cardiovascular

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Compound (Metabolite)	Bioanalytical Method	Calibration Range	Bioanalytical matrix	Class
Dimethyl Sulfoxide (DMSO)	LC/MS/MS	50-5000 ng/mL	Human EDTA Plasma	Miscellaneous
Dinacilcib	LC/MS/MS	1-1000 ng/mL	Human EDTA Plasma	Oncology
Dipivefrin	LC/MS/MS	2-4000 pg/mL	Human NaF/Na ₂ EDTA Plasma	Ophthalmology
Dipyridamole	LC/MS/MS	20-4000 ng/mL	Human EDTA Plasma	Cardiovascular
Docetaxel	LC/MS/MS	5-5000 ng/mL	Human EDTA Plasma	Oncology
Docetaxel	LC/MS/MS	2 - 400 ng/mL	Human Heparin Plasma	Oncology
Docetaxel Unbound (Free)	LC/MS/MS	0.8-400 ng/mL	Human EDTA Plasma	Oncology
Dodecyl Maltoside	LC/MS/MS	0.5-2500 ng/ml	Human EDTA Plasma	Miscellaneous
Dofetilide	LC/MS/MS	20-5000 pg/mL	Human EDTA Plasma	Cardiovascular
Dolutegravir	LC/MS/MS	10-10000 ng/mL	Human EDTA Plasma	Infectious Disease
Domperidone	LC/MS/MS	0.1-40 ng/mL	Human EDTA Plasma	Antiemetic
Donepezil	LC/MS/MS	100-50000 pg/mL	Human EDTA Plasma	Central Nervous System Agents
Donepezil	LC/MS/MS	200-100000 pg/mL	Human EDTA Plasma	Central Nervous System Agents
Donepezil	LC/MS/MS	1-400 ng/mL	Human EDTA Plasma	Central Nervous System Agents
Doxepin; Nordoxepin	LC/MS/MS	10-10000 pg/mL; 5-5000 pg/mL	Human EDTA Plasma	Antidepressant
Doxercalciferol	LC/MS/MS	5-100 pg/mL	Human EDTA Plasma	Endocrinology
Doxorubicin	LC/MS/MS	100-50000ng/mL	Human EDTA Plasma	Oncology
Doxorubicinol	LC/MS/MS	300-150000 pg/mL	Human EDTA Plasma	Oncology
Doxycycline	LC/MS/MS	4-800 ng/mL	Human EDTA Plasma	Infectious Disease
Doxycycline	LC/MS/MS	20-4000 ng/mL	Human EDTA Plasma	Infectious Disease

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Compound (Metabolite)	Bioanalytical Method	Calibration Range	Bioanalytical matrix	Class
Doxylamine	LC/MS/MS	0.5-250 ng/ml	Human EDTA Plasma	Respiratory
Dronabinol /11-hydroxy-delta-9-THC	LC/MS/MS	25-10000 pg/mL; 25-10000 pg/mL	Human EDTA Plasma	TBD
Drospirenone	LC/MS/MS	100-40000 pg/mL	Human EDTA Plasma	Endocrinology
Drospirenone	LC/MS/MS	250-100000 pg/mL	Human EDTA Plasma	Endocrinology
Drospirenone	LC/MS/MS	500-200000 pg/mL	Human EDTA Plasma	Endocrinology
D-Threo-Methylphenidate	LC/MS/MS	100-5000 pg/mL	Human EDTA Plasma	Central Nervous System Agents
D-Threo-Methylphenidate; L-Threo-Methylphenidate	LC/MS/MS	100-5000 pg/mL; 2-200 pg/mL	Human EDTA Plasma	Central Nervous System Agents
D-Threo-Methylphenidate; L-Threo-Methylphenidate	LC/MS/MS	150-30000 pg/mL; 4-800 pg/mL	Human EDTA Plasma	Central Nervous System Agents
Duloxetine	LC/MS/MS	0.5-100 ng/mL	Human EDTA Plasma	Central Nervous System Agents
Dutasteride	LC/MS/MS	50-5000 pg/mL	Human EDTA Plasma	Endocrinology
Ecopipam; desmethyl ecopipam	LC/MS/MS	0.5-50 ng/mL	Human EDTA Plasma	Central Nervous System Agents
EDTA	LC/MS/MS	100-5000 ng/mL	Human Urine	Miscellaneous
Efavirenz	LC/MS/MS	20-4000 ng/mL	Human EDTA Plasma	Infectious Disease
Eflornithine (a-difluoromethylornithine)	LC/MS/MS	50-100000 ng/mL	Human Lithium Heparinized Plasma	TBD
Eicosapentaenoic Acid (EPA) Free; Docosahexaenoic Acid (DHA) Free	LC/MS/MS	25-800 ng/mL; 100-2500 ng/mL	Human EDTA Plasma	Health Supplementary
Eicosapentaenoic Acid (EPA); Docosahexaenoic Acid (DHA)	LC/MS/MS	2-200 µg/mL; 10-1000 µg/mL	Human EDTA Plasma	Health Supplementary
Eletriptan; Desmethyl Eletriptan	LC/MS/MS	500-250000 pg/mL	Human EDTA Plasma	Pain
Eltrombopag	LC/MS/MS	10-10000 ng/mL	Human EDTA Plasma	Hematopoietic Agents

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Compound (Metabolite)	Bioanalytical Method	Calibration Range	Bioanalytical matrix	Class
Elvitegravir	LC/MS/MS	20-10000 ng/mL	Human EDTA Plasma	Infectious Disease
Emtricitabine	LC/MS/MS	5-5000 ng/mL	Human EDTA Plasma	Antiretroviral (HIV)
Enalapril; Enalaprilat	LC/MS/MS	0.5-200 ng/mL	Human EDTA Plasma	Cardiovascular
Eniluracil	LC/MS/MS	1-250 ng/mL	Human EDTA Plasma	Oncology
Entacapone	LC/MS/MS	10-2000 ng/mL	Human EDTA Plasma	Central Nervous System Agents
Entecavir	LC/MS/MS	50-20000 pg/mL	Human EDTA Plasma	Antiviral
Enzalutamide; Desmethylenzalutamide	LC/MS/MS	100-40000 ng/mL	Human EDTA Plasma	Oncology
Epirubicin	LC/MS/MS	5-1000 ng/mL	Rabbit Plasma	Oncology
Epinephrine; Norepinephrine	LC/MS/MS	10-10000 pg/mL; 25-100000 pg/mL	Human NaF-Na ₂ EDTA	Biomarker, Anaphylaxis
Epirubicin; Epirubicinol	LC/MS/MS	5-1000 ng/mL; 2-200 ng/mL	Human Sodium Heparinized Plasma	Oncology
Eplerenone	LC/MS/MS	10-2500 ng/mL	Human EDTA Plasma	Cardiovascular
Ergocalciferol	LC/MS/MS	100-100000 pg/mL	Human EDTA Plasma	Vitamin D
Erlotinib	LC/MS/MS	10-5000 ng/mL	Human EDTA Plasma	Oncology
Erythromycin	LC/MS/MS	20-1000 ng/mL	Human EDTA Plasma	Infectious Disease
Erythromycin; Erythromycin Ethylsuccinate	LC/MS/MS	20-2000 ng/mL	Human EDTA Plasma	Infectious Disease
Escitalopram	LC/MS/MS	100-15000 pg/mL	Human EDTA Plasma	Central Nervous System Agents
Escitalopram	LC/MS/MS	200-50000 pg/mL	Human EDTA Plasma	Central Nervous System Agents
Escitalopram; Desmethylcitalopram	LC/MS/MS	200-40000 pg/mL; 50-5000 pg/mL	Human Lithium Heparinized Plasma	Central Nervous System Agents
Esomeprazole	LC/MS/MS	1.5-750 ng/mL	Human EDTA Plasma	Gastrointestinal

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Compound (Metabolite)	Bioanalytical Method	Calibration Range	Bioanalytical matrix	Class
Esomeprazole	LC/MS/MS	5-3000 ng/mL	Human EDTA Plasma	Gastrointestinal
Estradiol	LC/MS/MS	1-100 pg/mL	Human EDTA Plasma	Endocrinology
Estradiol	LC/MS/MS	1-50 pg/mL	Human EDTA Plasma	Endocrinology
Estradiol	LC/MS/MS	2.5-250 pg/mL	Human EDTA Plasma	Endocrinology
Estrone; Estradiol	GC/MS/MS	1.5-250 pg/mL; 0.6-100 pg/mL	Human EDTA Plasma	Endocrinology
Estrone; Estradiol	GC/MS/MS	5-1000 pg/mL; 2-500 pg/mL	Human Serum	Endocrinology
Estrone; Estradiol	LC/MS/MS	5-1000 pg/mL; 2.5-500 pg/mL	Human EDTA Plasma	Endocrinology
Estradiol; Testosterone; Estrone; Androstenedione	GC/MS/MS	0.625 - 80 pg/mL; 25 - 3200 pg/mL; 1.56 - 200 pg/mL; 25 - 3200 pg/mL	Human Serum	Endocrinology
Estradiol; Testosterone; Estrone; Androstenedione	GC/MS/MS	0.625 - 80 pg/mL; 25 - 3200 pg/mL; 1.56 - 200 pg/mL; 25 - 3200 pg/mL	Human Heparin Plasma	Endocrinology
Estradiol; Testosterone; Estrone; Androstenedione; Estronesulfate	GC/MS/MS	0.625 - 80 pg/mL; 25 - 3200 pg/mL; 1.56 - 200 pg/mL; 25 - 3200 pg/mL; 3.13 - 800 pg/mL	Human Heparin Post Menopausal Serum	Endocrinology
Estrone (Total)	LC/MS/MS	25-2500 pg/mL	Human EDTA Plasma	Endocrinology
Estrone (Total)	LC/MS/MS	50-100000 pg/mL	Human EDTA Plasma	Endocrinology
Estrone sulfate	GC/MS/MS	25 - 5000 pg/mL	Human Serum	Endocrinology
Eszopiclone	LC/MS/MS	0.25-50 ng/mL	Human EDTA Plasma	Central Nervous System Agents
Ethinyl Estradiol	LC/MS/MS	1-250 pg/mL	Human EDTA Plasma	Endocrinology
Ethinyl Estradiol; Gestodene	LC/MS/MS	2-250 pg/mL; 50-25000 pg/mL	Human EDTA Plasma	Endocrinology
Ethinyl Estradiol; Norethindrone	LC/MS/MS	1-200 pg/mL; 100-40000 pg/mL	Human EDTA Plasma	Endocrinology
Ethinyl Estradiol	LC/MS/MS	2.5 - 125 pg/mL	Human Serum	Endocrinology
Etonogestrel (3-Ketodesogestrel)	LC/MS/MS	10-2000 pg/mL	Human EDTA Plasma	Endocrinology

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Compound (Metabolite)	Bioanalytical Method	Calibration Range	Bioanalytical matrix	Class
Etonogestrel (3-Ketodesogestrel)	LC/MS/MS	25-5000 pg/mL	Human EDTA Plasma	Endocrinology
Etoposide	LC/MS/MS	160-40000 ng/mL	Human EDTA Plasma	Oncology
Etoricoxib	LC/MS/MS	10-8000 ng/mL	Human EDTA Plasma	Pain
Everolimus	LC/MS/MS	50-25000 pg/mL	Human EDTA Whole Blood	Immunology
Everolimus	LC/MS/MS	200-100000 pg/mL	Human EDTA Whole Blood	Immunology
Exemestane	LC/MS/MS	40-40000 pg/mL	Human EDTA Plasma	Oncology
Ezetimibe (Total)	LC/MS/MS	200-200000 pg/mL	Human EDTA Plasma	Cardiovascular
Ezetimibe (Unconjugated)	LC/MS/MS	40-20000 pg/mL	Human EDTA Plasma	Cardiovascular
Famotidine	LC/MS/MS	0.5-200 ng/mL	Human EDTA Plasma	Gastrointestinal
Febuxostat	LC/MS/MS	10-10000 ng/mL	Human EDTA Plasma	Antigout Drugs
Felodipine	LC/MS/MS	20-10000 pg/mL	Human EDTA Plasma	Cardiovascular
Fenofibric Acid	LC/MS/MS	50-25000 ng/mL	Human EDTA Plasma	Cardiovascular
Fentanyl	LC/MS/MS	10-5000 pg/mL	Human EDTA Plasma	Pain
Fesoterodine; 5-Hydroxymethyl Tolteronidine	LC/MS/MS	2-2000 pg/mL; 50-10000 pg/mL	Human NaF/K2C2O4 Plasma	Antispasmodic (For Urinary Incontinence)
Fexofenadine	LC/MS/MS	0.5-500 ng/mL	Human EDTA Plasma	Respiratory
Fexofenadine	LC/MS/MS	2-1000 ng/mL	Human EDTA Plasma	Respiratory
Finasteride	LC/MS/MS	0.5-200 ng/mL	Human EDTA Plasma	Genitourinary
Fingolimod	LC/MS/MS	10-4000 pg/mL	Human EDTA Whole Blood	Immunology
Fingolimod phosphate	LC/MS/MS	50-4000 pg/mL	Human EDTA Whole Blood	Immunology

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Compound (Metabolite)	Bioanalytical Method	Calibration Range	Bioanalytical matrix	Class
Fluconazole	LC/MS/MS	37.5-15000 ng/mL	Human Sodium Heparinized Plasma	Infectious Disease, Dermatology
Flucytosine	LC/MS/MS	100-50000 ng/mL	Human EDTA Plasma	Antifungal
Fluphenazine	LC/MS/MS	5-5000 pg/mL	Human EDTA Plasma	Antipsychotic
Fluorouracil	LC/MS/MS	5-2500 ng/mL	Human EDTA Plasma	Oncology
Fluorouracil	LC/MS/MS	10-5000 ng/mL	Human EDTA Plasma	Oncology
Fluoxetine; Norfluoxetine	LC/MS	0.5-60 ng/mL	Human Lithium Heparinized Plasma	Central Nervous System Agents
Fluoxetine; Norfluoxetine; Ondansetron	LC/MS/MS	2-1000 ng/ml; 5-2500 ng/ml; 2.5-1000 ng/ml	Rat Plasma	Central Nervous System Agents
Fluticasone Propionate	LC/MS/MS	250-50000 fg/mL	Human EDTA Plasma	Bronchodilator
Fluticasone Propionate	LC/MS/MS	500-250000 fg/mL	Human EDTA Plasma	Bronchodilator
Fluticasone Propionate	LC/MS/MS	1-500 pg/mL	Human EDTA Plasma	Bronchodilator
Fluvastatin	LC/MS/MS	0.5-500 ng/mL	Human Sodium Heparinized Plasma	Cardiovascular
Fluvoxamine	LC/MS/MS	1-400 ng/mL	Human EDTA Plasma	Central Nervous System Agents
Formoterol	LC/MS/MS	250-125000 fg/mL	Human NaF/K2C2O4 Plasma	Bronchodilator
Fosinopril	LC/MS/MS	100-10000 pg/mL	Human EDTA Plasma	Cardiovascular
Fosinoprilat	LC/MS/MS	1-500 ng/mL	Human EDTA Plasma	Cardiovascular
Fulvestrant	LC/MS/MS	1 - 200 ng/mL	Human EDTA Plasma	TBD
Fulvestrant	LC/MS/MS	100-20000 pg/mL	Human Lithium Heparinized Plasma	TBD
Furosemide	LC/MS/MS	300-30000 ng/mL	Human EDTA Plasma	Cardiovascular
Furosemide	LC/MS/MS	100-200000 ng/mL	Human Urine	Cardiovascular

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Compound (Metabolite)	Bioanalytical Method	Calibration Range	Bioanalytical matrix	Class
Furosemide	LC/MS/MS	5-2000 ng/mL	Human EDTA Plasma	Cardiovascular
Gabapentin	LC/MS/MS	25-10000 ng/mL	Human EDTA Plasma	Central Nervous System Agents
Gabapentin	LC/MS/MS	100-50000 ng/mL	Human Cerebrospinal Fluid (CSF)	Central Nervous System Agents
Gabapentin Lactam	LC/MS/MS	3-150 ng/mL	Human Cerebrospinal Fluid (CSF)	Central Nervous System Agents
Gabapentin Lactam	LC/MS/MS	75-75000 ng/mL	Sheep Cerebrospinal Fluid (CSF)	Central Nervous System Agents
Gabapentin Lactam	LC/MS/MS	1.5-300 ng/mL	Human EDTA Plasma	Central Nervous System Agents
Galanthamine	LC/MS/MS	0.5-100 ng/mL	Human EDTA Plasma	Central Nervous System Agents
Gefitinib	LC/MS/MS	1-500 ng/mL	Human EDTA Plasma	Oncology
Gemcitabine	LC/MS/MS	100-50000 ng/mL	Human EDTA Plasma	Oncology
Gemcitabine; 2,2-Difluoro-2-Deoxyuridine	LC/MS/MS	100-50000 ng/mL; 100-100000 ng/mL	Human EDTA Plasma	Oncology
Gemfibrozil	LC/MS/MS	100-40000 ng/mL	Human EDTA Plasma	Cardiovascular
Gemfibrozil	LC/MS/MS	50-50000 ng/mL	Human EDTA Plasma	Cardiovascular
Gemfibrozil (Total)	LC/MS/MS	32.5-6500 ng/mL	Human EDTA Plasma	Cardiovascular
Gemfibrozil; Gemfibrozil Glucuronide	LC/MS/MS	50-50000 ng/mL; 15-15000 ng/mL	Human EDTA Plasma	Cardiovascular
Gestodene	LC/MS/MS	50-25000 pg/mL	Human Lithium Heparinized Plasma	Endocrinology
Gestodene	LC/MS/MS	50-12500 pg/mL	Human EDTA Plasma	Endocrinology
Gliclazide	LC/MS/MS	20-4000 ng/mL	Human EDTA Plasma	Antidiabetic
Gliclazide	LC/MS/MS	5-1000 ng/mL	Human EDTA Plasma	Antidiabetic
Glimepiride	LC/MS/MS	0.25-100 ng/mL	Human EDTA Plasma	Endocrinology

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Compound (Metabolite)	Bioanalytical Method	Calibration Range	Bioanalytical matrix	Class
Glimepiride	LC/MS/MS	1-500 ng/mL	Human EDTA Plasma	Endocrinology
Glipizide	LC/MS/MS	1-1000 ng/mL	Human EDTA Plasma	Endocrinology
Glyburide	LC/MS/MS	2-300 ng/mL	Human EDTA Plasma	Diabetes
Granisetron	LC/MS/MS	0.3-30 ng/mL	Human EDTA Plasma	Gastrointestinal
Guaifenesin	LC/MS/MS	10-5000 ng/mL	Human EDTA Plasma	Respiratory
Guanfacine	LC/MS/MS	50-25000 pg/mL	Human EDTA Plasma	Central Nervous System Agents
Halobetasol Propionate	LC/MS/MS	50-20000 pg/mL	Rat EDTA Plasma	Dermatology
Haloperidol	LC/MS/MS	0.1 - 5 ng/mL	Human Heparin Plasma	TBD
Hydrochlorothiazide	LC/MS/MS	1-250 ng/mL	Human EDTA Plasma	Cardiovascular
Hydrocodone	LC/MS/MS	150-30000 pg/mL	Human EDTA Plasma	Pain
Hydromorphone	LC/MS/MS	5-5000 pg/mL	Human EDTA Plasma	Pain
Hydromorphone	LC/MS/MS	100-50000 pg/mL	Human EDTA Plasma	Pain
Bupropion; Hydroxybupropion	LC/MS/MS	1-200 ng/mL; 1-400 ng/mL	Human EDTA Plasma	Central Nervous System Agents
Hyoscine N-Butyl Bromide	LC/MS/MS	10-5000 pg/mL	Human EDTA Plasma	Gastrointestinal
Ibandronic Acid	LC/MS/MS	20-2000 pg/mL	Human EDTA Plasma	Endocrinology
Ibandronic Acid	LC/MS/MS	0.5-250 ng/mL	Human EDTA Plasma	Endocrinology
Ibandronic Acid	LC/MS/MS	5-5000 ng/mL	Human EDTA Plasma	Endocrinology
Ibrutinib; ibrutinib dihydrodiol	LC/MS/MS	100-100000 pg/mL	Human EDTA Plasma	Oncology
Ibuprofen	LC/MS/MS	150-30000 ng/mL	Human EDTA Plasma	Pain
Ibuprofen	LC/MS/MS	1-100 ug/mL	Human EDTA Plasma	Pain

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Compound (Metabolite)	Bioanalytical Method	Calibration Range	Bioanalytical matrix	Class
Imatinib; Desmethyl Imatinib	LC/MS/MS	20-4000 ng/mL	Human EDTA Plasma	Oncology
Imatinib	LC/MS/MS	20-4000 ng/mL	Human EDTA Plasma	Oncology
Imipramine; Desipramine	LC/MS/MS	200-100000 pg/mL; 100-50000 pg/mL	Human EDTA Plasma	Central Nervous System Agents
Indapamide	LC/MS/MS	0.25-150 ng/mL	Human Whole Blood	Cardiovascular
Inosine; 4-acetamidobenzoic acid; 1-Dimethylamino-2-propanol	LC/MS/MS	5-1000 ng/mL; 100-10000 ng/mL; 50-5000 ng/mL	Human EDTA Plasma	Nucleoside
Irbesartan	LC/MS/MS	20-8000 ng/mL	Human EDTA Plasma	Cardiovascular
Iron (total)	ICP/MS	200-50000 ng/mL	Human Serum	Cardiovascular
Isoniazid	LC/MS/MS	20-10000ng/mL	Human EDTA Plasma	Antitubercular
Isosorbide 5-Mononitrate	LC/MS/MS	5-1250 ng/mL	Human EDTA Plasma	Cardiovascular
Isotretinoin	LC/MS/MS	0.5-600 ng/mL	Human EDTA Plasma	Dermatology
Isotretinoin	LC/MS/MS	0.5-1000 ng/mL	Human NaF/K ₂ C ₂ O ₄ Plasma	Dermatology
Isradipine	LC/MS/MS	20-5000 pg/mL	Human EDTA Plasma	Cardiovascular
Itraconazole	LC/MS/MS	1-1000 ng/mL	Human EDTA Plasma	Infectious Disease
Ivabradine	LC/MS/MS	100-100000 ng/mL	Human EDTA Plasma	Cardiovascular
Ketoconazole	LC/MS/MS	5-1000 ng/mL	Human Heparinized Plasma	Infectious Disease
Ketoconazole	LC/MS/MS	20-10000 ng/mL	Human Heparinized Plasma	Infectious Disease
Ketoconazole	LC/MS/MS	40-20000 ng/mL	Human Heparinized Plasma	Infectious Disease
Ketoprofen	LC/MS/MS	2 - 400 ng/mL	Human EDTA Plasma	Pain
Ketorolac	LC/MS/MS	10-4000 ng/mL	Human EDTA Plasma	Pain

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Compound (Metabolite)	Bioanalytical Method	Calibration Range	Bioanalytical matrix	Class
Lacidipine	LC/MS/MS	20-5000 pg/mL	Human EDTA Plasma	Cardiovascular
Lacosamide; Desmethyl Lacosamide	LC/MS/MS	50-20000 ng/mL; 5-2000 ng/mL	Human EDTA Plasma	Anticonvulsant; Antiepileptic
Lamivudine	LC/MS/MS	10-5000 ng/mL	Human EDTA Plasma	Infectious Disease
Lamivudine; Abacavir	LC/MS/MS	10-5000 ng/mL;5-5000 ng/mL	Human EDTA Plasma	Infectious Disease
Lamotrigine	LC/MS/MS	1-4000 ng/mL	Human EDTA Plasma	Central Nervous System Agents
Lamotrigine	LC/MS/MS	10-10000 ng/mL	Human EDTA Plasma	Central Nervous System Agents
Lansoprazole	LC/MS/MS	2-2000 ng/mL	Human EDTA Plasma	Gastrointestinal
Lapatinib	LC/MS/MS	100-10000 ng/mL	Human EDTA Plasma	Oncology
Ledipasvir	LC/MS/MS	1-1000 ng/mL	Human EDTA Plasma	Infectious Disease
Leflunomide	LC/MS/MS	20-4000 pg/ml	Human EDTA Plasma	Rheumatology
Lenalidomide	LC/MS/MS	2.5-1000 ng/mL	Human EDTA Plasma	Multiple myeloma
Lercanidipine	LC/MS/MS	25-10000 pg/mL	Human EDTA Plasma	Cardiovascular
Letrozole	LC/MS/MS	0.50-1000 ng/mL	Human EDTA Plasma	Oncology
Leukotriene B4	LC/MS/MS	25-12500 pg/mL	Human EDTA Plasma	Miscellaneous
Leukotriene B4	LC/MS/MS	25-12500 pg/mL	Human Urine	Miscellaneous
Leukotriene B4	LC/MS/MS	0.5-250 ng/mL	Rat EDTA Plasma	Miscellaneous
Leuprolide	LC/MS/MS	25-50000 pg/mL	Human Serum	Oncology
Leuprolide	LC/MS/MS	0.1-100 ng/mL	Human EDTA Plasma	Oncology
Leuprolide	LC/MS/MS	0.1-100 ng/mL	Human Serum	Oncology
Levetiracetam	LC/MS/MS	100-25000 ng/mL	Human EDTA Plasma	Central Nervous System Agents

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Compound (Metabolite)	Bioanalytical Method	Calibration Range	Bioanalytical matrix	Class
Levetiracetam	LC/MS/MS	200-60000 ng/mL	Human EDTA Plasma	Central Nervous System Agents
Levocetirizine	LC/MS/MS	2-400 ng/mL	Human EDTA Plasma	Antihistamine
Levodopa	LC/MS/MS	10-6000 ng/mL	Human EDTA Plasma	Central Nervous System Agents
Levodopa; Carbidopa	LC/MS/MS	10 - 6000 ng/mL; 1 - 600 ng/mL	Human EDTA Plasma	Central Nervous System Agents
Levodopa; Carbidopa	LC/MS/MS	5 - 1000 ng/mL; 0.5 - 100 ng/mL	Human EDTA Plasma	Central Nervous System Agents
Levomethadone; Dextromethadone	LC/MS/MS	0.5-100 ng/mL	Human Lithium Heparinized Plasma	Miscellaneous
Levonorgestrel	LC/MS/MS	10-10000 pg/mL	Human EDTA Plasma	Endocrinology
Levonorgestrel	LC/MS/MS	250-50000 pg/mL	Human EDTA Plasma	Endocrinology
Levothyroxine (T4)	LC/MS/MS	25-250 ng/mL	Human Serum	Endocrinology
Levothyroxine (T4); Liothyronine(T3)	LC/MS/MS	2.5-1000 ng/mL; 0.25-100 ng/mL	Human Serum	Endocrinology
Lidocaine	LC/MS/MS	200-200000 pg/mL	Human EDTA Plasma	Pain
Linagliptin	LC/MS/MS	80-8000ng/mL	Human EDTA Plasma	Antidiabetic
Linezolid	LC/MS/MS	100-20000 ng/mL	Human EDTA Plasma	Infectious Disease
Lisinopril	LC/MS/MS	0.5-250 ng/mL	Human EDTA Plasma	Cardiovascular
Lithium	ICP/MS	20-10000ng/mL	Human EDTA Plasma	Central Nervous System Agents
Loperamide	LC/MS/MS	10-5000 pg/mL	Human EDTA Plasma	Gastrointestinal
Loperamide	LC/MS/MS	5-2500 pg/mL	Human EDTA Plasma	Gastrointestinal
Loratadine; Descarboethoxy Loratadine	LC/MS/MS	20-20000 pg/mL	Human EDTA Plasma	Respiratory
Losartan; Losartan Carboxy Acid	LC/MS/MS	1-2000 ng/mL	Human EDTA Plasma	Cardiovascular

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Compound (Metabolite)	Bioanalytical Method	Calibration Range	Bioanalytical matrix	Class
Lovastatin; Lovastatin Hydroxy Acid	LC/MS/MS	200-10000 pg/mL	Human EDTA Plasma	Cardiovascular
Lovastatin; Lovastatin Hydroxy Acid	LC/MS/MS	100-5000 pg/mL	Human EDTA Plasma	Cardiovascular
Lumefantrine	LC/MS/MS	75-15000 ng/mL	Human EDTA Plasma	Antimalarial
Lurasidone	LC/MS/MS	100-200000 pg/mL	Human Serum	Central Nervous System Agents
Macitentan	LC/MS/MS	2-1000 ng/mL	Human EDTA Plasma	Cardiovascular
Maraviroc	LC/MS/MS	1-1000 ng/mL	Human EDTA Plasma	Infectious Disease
Medroxyprogesterone Acetate	LC/MS/MS	50-10000 pg/mL	Human EDTA Plasma	Endocrinology
Medroxyprogesterone Acetone	GC/MS/MS	5 - 2500 pg/mL	Human Heparin Plasma	Endocrinology
Megestrol Acetate	LC/MS/MS	5-2500 ng/mL	Human EDTA Plasma	Endocrinology
Megestrol Acetate	LC/MS/MS	2.5-5000 ng/mL	Rat EDTA Plasma	Endocrinology
Megestrol Acetate; Hydroxymethyl Megestrol; Acetoxy Hydroxymethyl Megestrol; Acetoxy Dihydroxymethyl Megestrol	LC/MS/MS	2-500 ng/mL; 1-250 ng/mL; 10-2500 ng/mL; 1-250 ng/mL	Human EDTA Plasma	Endocrinology
Meloxicam	LC/MS/MS	10-4000 ng/mL	Human EDTA Plasma	Pain
Memantine	LC/MS/MS	100-40000 pg/mL	Human EDTA Plasma	Central Nervous System Agents
Memantine	LC/MS/MS	0.1 - 50 ng/mL	Human EDTA Plasma	Central Nervous System Agents
Memantine; Donepezil	LC/MS/MS	0.6-60ng/mL;0.5-50ng/mL	Human EDTA Plasma	Central Nervous System Agents
Metaxalone	LC/MS/MS	5-8000 ng/mL	Human EDTA Plasma	Central Nervous System Agents
Metformin	LC/MS/MS	1-400 ng/mL	Human EDTA Plasma	Endocrinology
Metformin	LC/MS/MS	500-200000 ng/mL	Human Urine	Endocrinology
Metformin	LC/MS/MS	10-2500 ng/mL	Human Urine	Endocrinology

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Compound (Metabolite)	Bioanalytical Method	Calibration Range	Bioanalytical matrix	Class
Metformin	LC/MS/MS	2 - 2000 ng/mL	Human EDTA Plasma	Endocrinology
Metformin	LC/MS/MS	5 - 2000 ng/mL	Human EDTA Plasma	Endocrinology
Methadone	LC/MS/MS	0.50-100 ng/ml	Human EDTA Plasma	Opioid Analgesic
Methazolamide	LC/MS/MS	5-10000 ng/mL	Human EDTA Plasma	Antiglaucoma
Methazolamide	LC/MS/MS	100-100000 ng/mL	Human Whole Blood	Antiglaucoma
Methylphenidate	LC/MS/MS	100-50000 pg/mL	Human EDTA Plasma	Central Nervous System Agents
Methylphenidate; Ritalinic acid	LC/MS/MS	0.2-100 ng/mL; 5-2500 ng/mL	Dog EDTA Plasma	Central Nervous System Agents
Methylphenidate; Ritalinic acid	LC/MS/MS	1-200 ng/mL; 10-2000 ng/mL	Human Urine	Central Nervous System Agents
Methylphenidate; Ritalinic Acid	LC/MS/MS	100 - 20000 ng/mL; 2- 400 ng/mL	Human EDTA Plasma	Central Nervous System Agents
Methylprednisolone	LC/MS/MS	0.5-500 ng/mL	Human EDTA Plasma	Immunology
Methylprednisolone	LC/MS/MS	0.25-25 ng/mL	Human NaF/K ₂ C ₂ O ₄ Plasma	Immunology
Metoclopramide	LC/MS/MS	0.25-100 ng/mL	Human EDTA Plasma	Gastrointestinal
Metolazone	LC/MS/MS	100-80000 pg/mL	Human EDTA Plasma	Cardiovascular
Metoprolol	LC/MS/MS	0.25-200 ng/mL	Human EDTA Plasma	Cardiovascular
Metyrosine	LC/MS/MS	50-10000 ng/mL	Human EDTA Plasma	Cardiovascular
Mianserin; Normianserin	LC/MS/MS	1-200 ng/mL	Human EDTA Plasma	Central Nervous System Agents
Midazolam	LC/MS/MS	20-20000 pg/mL	Human EDTA Plasma	Central Nervous System Agents
Midazolam	LC/MS/MS	0.1-100 ng/mL	Human Whole Blood (DBS)	Central Nervous System Agents
Midazolam; 1-OH-Midazolam	LC/MS/MS	0.6-600 ng/mL; 0,1-100 ng/mL	Human EDTA Plasma	Central Nervous System Agents

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Compound (Metabolite)	Bioanalytical Method	Calibration Range	Bioanalytical matrix	Class
Milnacipran	LC/MS/MS	1-250ng/mL	Human EDTA Plasma	Central Nervous System Agents
Minocycline	LC/MS/MS	20-5000 ng/mL	Human Lithium Heparinized Plasma	Infectious Disease
Mirabegron	LC/MS/MS	100-60000 pg/mL	Human NaF-Na2EDTA Plasma	Urology
Mirtazapine	LC/MS/MS	0.25-500 ng/mL	Human Plasma	Central Nervous System Agents
Misoprostol Acid	LC/MS/MS	10-1000 pg/mL	Human EDTA Plasma	Gastrointestinal
Misoprostol Acid	LC/MS/MS	40-20000 pg/mL	Rat EDTA Plasma	Gastrointestinal
Mitoxantrone	LC/MS/MS	0.5-100 ng/mL	Human EDTA Plasma	Oncology
Modafinil	LC/MS/MS	20-4000 ng/mL	Human EDTA Plasma	Central Nervous System Agents
Molsidomine; Linsidomine	LC/MS/MS	200-50000 pg/mL	Human EDTA Plasma	Cardiovascular
Mometasone Furoate	LC/MS/MS	250-50000 fg/mL	Human EDTA Plasma	Miscellaneous
Mometasone Furoate	LC/MS/MS	1-100 pg/mL	Human EDTA Plasma	Miscellaneous
Monomethyl Fumarate	LC/MS/MS	6-6000 ng/mL	Human EDTA Plasma	Central Nervous System Agents
Montelukast	LC/MS/MS	1-1000 ng/mL	Human EDTA Plasma	Respiratory
Morphine	LC/MS/MS	0.25-50 ng/mL	Human EDTA Plasma	Pain
Morphine	LC/MS/MS	0.5 - 200 ng/mL	Human EDTA Plasma	Pain
Morphine, Morphine-3-Beta-D-Glucuronide, Morphine-6-Beta-D-Glucuronide	LC/MS/MS	0.5-250 ng/mL, 10-5000 ng/mL, 2-1000 ng/mL	Human EDTA Plasma	Pain
Morphine, Morphine-3-Beta-D-Glucuronide, Morphine-6-Beta-D-Glucuronide	LC/MS/MS	25-10000 pg/mL; 500-200000 pg/mL; 100-40000 pg/mL	Human EDTA Plasma	Pain
Morphine, Morphine-3-Beta-D-Glucuronide, Morphine-6-Beta-D-Glucuronide	LC/MS/MS	0.25-50 ng/mL; 5-1000 ng/mL; 1-200 ng/mL	Human EDTA Plasma	Pain
Moxifloxacin	LC/MS/MS	10-5000 ng/mL	Human Plasma	Infectious Disease

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Compound (Metabolite)	Bioanalytical Method	Calibration Range	Bioanalytical matrix	Class
Mycophenolate Mofetil	LC/MS/MS	20-4000 pg/mL	Human EDTA Plasma	Immunology
Mycophenolic Acid	LC/MS/MS	50-40000 ng/mL	Human EDTA Plasma	Immunology
Mycophenolic Acid Glucuronide	LC/MS/MS	0.5-200 µg/mL	Human EDTA Plasma	Immunology
Mycophenolic Acid Glucuronide; Mycophenolic Acid Acyl Glucuronide; Mycophenolic Acid 7-o-beta Glucoside	LC/MS/MS	68-68000 ng/mL; 3.4-3400 ng/mL; 4-3400 ng/mL	Rat Plasma	Immunology
Mycophenolic Acid; Mycophenolic Acid Acyl Glucuronide (AcMPAG)	LC/MS/MS	50-40000 ng/mL; 5-1000 ng/mL	Human EDTA Plasma	Immunology
N-Acetyl Cysteine	LC/MS/MS	5-2500 ng/mL	Human EDTA Plasma	Miscellaneous
Naftifine	LC/MS/MS	1-1000 ng/mL	Human EDTA Plasma	Infectious Disease
Naftifine	LC/MS/MS	1-1000 ng/mL	Human Urine	Infectious Disease
Naloxone (Free)	LC/MS/MS	1-1000 pg/mL	Human EDTA Plasma	Pain
Naloxone (Total)	LC/MS/MS	50-50000 pg/mL	Human EDTA Plasma	Pain
Naloxone (Total)	LC/MS/MS	100-100000 pg/mL	Human EDTA Plasma	Pain
Naloxone-3-Glucuronide	LC/MS/MS	300-300000 pg/mL	Human EDTA Plasma	Pain
Naltrexone; 6-Beta-Naltrexol	LC/MS/MS	20-2000 pg/mL; 100-50000 pg/mL	Human EDTA Plasma	Central Nervous System Agents
Naproxen	LC/MS/MS	1 - 100 µg/mL	Human EDTA Plasma	Pain
Naratriptan	LC/MS/MS	50-25000 pg/mL	Human EDTA Plasma	Pain
Nateglinide	LC/MS/MS	50-20000 ng/mL	Human EDTA Plasma	Endocrinology
Nebivolol	LC/MS/MS	20-10000 pg/mL	Human EDTA Plasma	Cardiovascular
Nefazodone; Hydroxy Nefazodone; M-chlorophenylpiperazin	LC/MS/MS	2-500 ng/mL; 0.4-100 ng/mL	Human EDTA Plasma	Central Nervous System Agents
Nevirapine	LC/MS/MS	20-4000 pg/mL	Human EDTA Plasma	Infectious Disease
Nevirapine	LC/MS/MS	50-10000 ng/mL	Human EDTA Plasma	Infectious Disease

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Compound (Metabolite)	Bioanalytical Method	Calibration Range	Bioanalytical matrix	Class
Niacin; Nicotinuric acid	LC/MS/MS	25-10000 ng/mL	Human EDTA Plasma	Cardiovascular
Nicorandil	LC/MS/MS	2-800 ng/mL	Human EDTA Plasma	Cardiovascular
Nicotine	LC/MS/MS	0.5-50 ng/mL	Human EDTA Plasma	Autonomic Drugs
Nicotinuric Acid	LC/MS/MS	2-800 ng/mL	Human EDTA Plasma	Cardiovascular
Nifedipine	LC/MS/MS	200-100000 pg/mL	Human EDTA Plasma	Cardiovascular
Nifedipine	LC/MS/MS	500-250000 pg/mL	Human EDTA Plasma	Cardiovascular
Nifurtimox	LC/MS/MS	10-10000 ng/mL	Human EDTA Plasma	Antiprotozoal
Nilotinib	LC/MS/MS	2-2000 ng/mL	Human EDTA Plasma	Oncology
Nimesulide	LC/MS	50-10000 ng/mL	Human EDTA Plasma	Pain, Rheumatology
Nisoldipine	LC/MS/MS	50-50000 pg/mL	Human EDTA Plasma	Cardiovascular
Nitisonone	LC/MS/MS	5-5000 ng/mL	Human EDTA Plasma	TBD
Nitrofurantoin	LC/MS/MS	1-1000 ng/mL	Human EDTA Plasma	Anti-infective
Nomegestrol Acetate	LC/MS/MS	50-20000 pg/mL	Human EDTA Plasma	Endocrinology
Norethindrone	LC/MS/MS	50-10000 pg/mL	Human EDTA Plasma	Endocrinology
Norethindrone	LC/MS/MS	100-20000 pg/mL	Human EDTA Plasma	Endocrinology
Norgestimate; 17-Deacetyl Norgestimate; Levonorgestrel	LC/MS/MS	100-5000 ng/mL; 50-3000 pg/mL	Human EDTA Plasma	Endocrinology
Obeticholic Acid; Glyco-Obeticholic Acid; Tauro-Obeticholic Acid	LC/MS/MS	200-80000 pg/mL; 100-80000 pg/mL; 100-40000 pg/mL	Human EDTA Plasma	Liver Diseases
Octreotide	LC/MS/MS	20-20000 pg/mL	Human EDTA Plasma	Endocrinology
Olanzapine	LC/MS/MS	0.1-40 ng/mL	Human EDTA Plasma	Central Nervous System Agents
Olaparib	LC/MS/MS	50-20000 ng/mL	Human EDTA Plasma	Oncology

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Compound (Metabolite)	Bioanalytical Method	Calibration Range	Bioanalytical matrix	Class
Olmesartan	LC/MS/MS	3-1500 ng/mL	Human EDTA Plasma	Cardiovascular
Olmesartan	LC/MS/MS	6-3000 ng/mL	Human EDTA Plasma	Cardiovascular
Omeprazole	LC/MS/MS	2-1000 ng/ml	Human EDTA Plasma	Gastrointestinal
Ondansetron	LC/MS/MS	0.3-300 ng/mL	Human EDTA Plasma	Gastrointestinal
Opipramol	LC/MS/MS	100-40000 pg/mL	Human EDTA Plasma	Central Nervous System Agents
Orlistat	LC/MS/MS	5-4000 pg/mL	Human EDTA Plasma	Endocrinology, Metabolism
Oseltamivir; Oseltamivir acid	LC/MS/MS	1-200 ng/mL; 5-1000 ng/mL	Human EDTA Plasma	Infectious Disease
Oxaliplatin Total	ICP-MS	5-10000 ng/mL	Human EDTA Plasma	Oncology
Oxaliplatin Free	ICP-MS	2-4000 ng/mL	Human EDTA Plasma	Oncology
Oxcarbazepine; 10-Hydroxycarbamazepine	LC/MS/MS	4-2000 ng/mL; 20-10000ng/mL	Human EDTA Plasma	Central Nervous System Agents
Oxybutynin; N-Desethyloxybutynin	LC/MS/MS	50-10000 pg/mL; 100-20000 pg/mL	Human EDTA Plasma	Genitourinary
Oxycodone	LC/MS/MS	50-12500 pg/mL	Human EDTA Plasma	Pain
Oxycodone	LC/MS/MS	0.25 - 200 ng/mL	Human EDTA Plasma	Pain
Oxycodone; Oxymorphone; Noroxycodone	LC/MS/MS	0.25-125 ng/mL; 40-1600 pg/mL; 0.25-62.5ng/mL	Human EDTA Plasma	Pain
Oxymorphone; 6-OH-Oxymorphone	LC/MS/MS	30-6000 pg/mL; 30-3000 pg/mL	Human EDTA Plasma	Pain
Oxypurinol	LC/MS/MS	25-2000 ng/mL	Human EDTA Plasma	Rheumatology
Oxytocin	LC/MS/MS	2-500 pg/mL	Human EDTA Plasma	TBD
Paclitaxel	LC/MS/MS	50-10000 ng/mL	Dog Plasma	Oncology
Paclitaxel	LC/MS/MS	5-5000 ng/mL	Human EDTA Plasma	Oncology

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Compound (Metabolite)	Bioanalytical Method	Calibration Range	Bioanalytical matrix	Class
Paclitaxel	LC/MS/MS	5-5000 ng/mL	Human Sodium Heparinized Plasma	Oncology
Paclitaxel (free)	LC/MS/MS	5-2500 ng/mL	Human EDTA Plasma	Oncology
Paclitaxel; 6-Alpha-Hydroxy Paclitaxel	LC/MS/MS	5-5000 ng/mL; 5-500ng/mL	Human EDTA Plasma	Antineoplastic
Paliperidone (9-Hydroxy-Risperidone)	LC/MS/MS	10-30000 pg/mL	Human EDTA Plasma	Central Nervous System Agents
Pantoprazole	LC/MS/MS	20-8000 ng/mL	Human EDTA Plasma	Gastrointestinal
Paricalcitol	LC/MS/MS	0.5-500 ng/mL	Rat EDTA K3 Plasma	Rheumatology
Paricalcitol	LC/MS/MS	10-1000 pg/mL	Human EDTA Plasma	Rheumatology
Paroxetine	LC/MS/MS	0.1 - 30 ng/mL	Human EDTA Plasma	Central Nervous System Agents
Pazopanib	LC/MS/MS	0.5-800 µg/mL	Human EDTA Plasma	Oncology
Pemetrexed	LC/MS/MS	100-200000 ng/mL	Human EDTA Plasma	Oncology
Pemetrexed	LC/MS/MS	100-200000 ng/mL	Human Serum	Oncology
Penciclovir	LC/MS/MS	50-10000 ng/mL	Human EDTA Plasma	Infectious Disease
Total Penicillamine	LC/MS/MS	10-4000 ng/mL	Human EDTA Plasma	Chelating Agent
Pergolide	LC/MS/MS	2-50 pg/mL	Human EDTA Plasma	Central Nervous System Agents
Perindopril; Perindoprilat	LC/MS/MS	400-160000 pg/mL; 100-40000 pg/mL	Human EDTA Plasma	Cardiovascular
Phenobarbital	LC/MS/MS	50-5000 ng/mL	Human EDTA Plasma	Anxiolytic, Anticonvulsant, Sedative-Hypnotic
Phenoxybenzamine	LC/MS/MS	25-25000 pg/mL	Human EDTA Plasma	Hypertension
Phenylbutyric acid	LC/MS/MS	100-60000 ng/mL	Human EDTA Plasma	Urea disorder
Phenylbutyrate/Phenylacetate/Phenylacetylglutamine	LC/MS/MS	5-500 ug/mL; 2-200 ug/mL; 2-200 ug/mL	Human EDTA Plasma	Urea disorder

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Compound (Metabolite)	Bioanalytical Method	Calibration Range	Bioanalytical matrix	Class
Phenylephrine Free	LC/MS/MS	10-2500 pg/mL	Human EDTA Plasma	Infectious Disease
Phenytoin	LC/MS/MS	25-2500 ng/mL	Human EDTA Plasma	Central Nervous System Agents
E-Phytonadion; Z-Phytonadion	LC/MS/MS	100-25000 pg/mL	Human EDTA Plasma	Viamins
Pinaverium	LC/MS/MS	5-2500 pg/mL	Human EDTA Plasma	Gastrointestinal
Pioglitazone; Hydroxyioglitazone	LC/MS/MS	10-3000 ng/mL; 10-1500 ng/mL	Human EDTA Plasma	Endocrinology
Pioglitazone; Hydroxyioglitazone; Ketopioglitazone	LC/MS/MS	10-2000 ng/mL; 20-2000 ng/mL; 4-800 ng/mL	Human EDTA Plasma	Endocrinology
Pipamperone	LC/MS/MS	0.25-500 ng/mL	Human EDTA Plasma	Antipsychotic
Piretanide	LC/MS/MS	0.5-300 ng/mL	Human EDTA Plasma	Cardiovascular
Pitavastatin	LC/MS/MS	0.5-250 ng/mL	Human EDTA Plasma	Cardiovascular
Platinum	ICP/MS	100-40000 ng Pt/mL	Human EDTA Plasma	Oncology
Pomalidomide	LC/MS/MS	0.5-200 ng/mL	Human EDTA Plasma	Multiple myeloma
Posaconazole	LC/MS/MS	1-500 ng/mL	Human EDTA Plasma	Antifungal
Potassium	ICP/MS	1000-20000µg/mL	Human Urine	Miscellaneous
Pramipexole	LC/MS/MS	10-1000 pg/mL	Human EDTA Plasma	Central Nervous System Agents
Pravastatin; 3-A-Hydroxy Pravastatin	LC/MS/MS	0.25-100 ng/mL; 0.25-50ng/mL	Human EDTA Plasma	Cardiovascular
Pravastatin; 3-A-Hydroxy Pravastatin	LC/MS/MS	0.25-100 ng/mL; 0.25-50 ng/mL	Human Lithium Heparinized Plasma	Cardiovascular
Prednisolone	LC/MS/MS	1-100 ng/mL	Rat Plasma	Ophtalmic
Prednisone; Prednisolone	LC/MS/MS	1-50 ng/mL; 5-250 ng/mL	Human EDTA Plasma	Immunology
Prednisone; Prednisolone	LC/MS/MS	1-500 ng/mL; 10-5000 ng/mL	Human EDTA Plasma	Immunology

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Compound (Metabolite)	Bioanalytical Method	Calibration Range	Bioanalytical matrix	Class
Prednisone; Prednisolone	LC/MS/MS	1-50 ng/mL; 5-250 ng/mL	Rabbit EDTA K3 Plasma	Immunology
Prednisone; Prednisolone	LC/MS/MS	1 - 50 ng/mL; 5 - 250 ng/mL	Rabbit EDTA Plasma	Immunology
Pregabalin	LC/MS/MS	30.07-15036 ng/mL	Human EDTA Plasma	Central Nervous System Agents
Pristinamycin IA; Pristinamycin IIA	LC/MS/MS	2.5-2500 ng/ml; 2.5-2500 ng/ml	Human Sodium Heparinized Plasma	Antibacterial
Probenecid	LC/MS/MS	200-80000ng/mL	Human EDTA Plasma	Rheumatology
Probenecid; Rifampin	LC/MS/MS	250 - 250000 ng/mL; 10 - 10000 ng/mL	Human EDTA Plasma	Rheumatology
Progesterone	LC/MS/MS	20-50000 pg/mL	Human EDTA Plasma	Endocrinology
Progesterone	LC/MS/MS	50 - 50000 pg/mL	Human Serum	Endocrinology
Promethazine	LC/MS/MS	0.5-20 ng/mL	Human EDTA Plasma	Respiratory, Gastrointestinal
Propafenone; 5-OH-Propafenone	LC/MS/MS	500-500000 pg/mL; 250-250000 pg/mL	Human EDTA Plasma	Antiarrhythmic (Class IC)
Propofol	LC/MS/MS	5-5000 ng/mL	Human Whole Blood	Central Nervous System Agents
Propofol	LC/MS/MS	5-5000 ng/mL	Human EDTA Plasma	Central Nervous System Agents
Propranolol Total	LC/MS/MS	1-400 ng/mL	Human EDTA Plasma	Cardiovascular
Propranolol Total; 4-hydroxypropranolol	LC/MS/MS	0.5-100 ng/mL	Human EDTA Plasma	Cardiovascular
Propylene glycol	LC/MS/MS	1-500 ug/mL	Human Plasma	Miscellaneous
Pseudoephedrine	LC/MS/MS	3-750 ng/mL	Human EDTA Plasma	Respiratory
Pyridoxal	LC/MS/MS	0.5-400 ng/mL	Human Whole Blood	Miscellaneous
Pyridoxal-5-Phosphate	LC/MS/MS	2-100 ng/mL	Human EDTA Plasma	Miscellaneous
Pyridoxamine	LC/MS/MS	200-50000 pg/mL	Human Whole Blood	Miscellaneous

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Compound (Metabolite)	Bioanalytical Method	Calibration Range	Bioanalytical matrix	Class
Pyridoxamine	LC/MS/MS	200-50000 pg/mL	Human EDTA Plasma	Miscellaneous
Pyridoxamine 5-Phosphate	LC/MS/MS	500-50000 pg/mL	Human Whole Blood	Miscellaneous
Pyridoxamine/Piridoxamine-5-phosphate	LC/MS/MS	5-5000ng/mL;0.25-200ng/mL	Human EDTA Plasma	Miscellaneous
Pyridoxic acid/Pyridoxal	LC/MS/MS	5-5000ng/mL;10-10000ng/mL	Human EDTA Plasma	Miscellaneous
Pyridoxine	LC/MS/MS	0.25-200 ng/mL	Human EDTA Plasma	Miscellaneous
Pyridoxine/Pyridoxal-5-phosphate	LC/MS/MS	0.25-200ng/mL;2-100ng/mL	Human EDTA Plasma	Miscellaneous
Quetiapine	LC/MS/MS	0.5-125 ng/mL	Human EDTA Plasma	Central Nervous System Agents
Quetiapine	LC/MS/MS	2-150ng/mL	Human Sodium Heparinized Plasma	Central Nervous System Agents
Quinapril; Quinaprilat	LC/MS/MS	2-200 ng/mL; 2.5-1000 ng/mL	Human EDTA Plasma	Cardiovascular
Quinidine	LC/MS/MS	40-4000 ng/mL	Human EDTA Plasma	Cardiovascular
Rabeprazole	LC/MS/MS	2-1000 ng/mL	Human EDTA Plasma	Gastrointestinal
Racecadotril	LC/MS/MS	10-5000 pg/mL	Human EDTA Plasma	Gastrointestinal
Raloxifene	LC/MS/MS	10-500 pg/mL	Human EDTA Plasma	Rheumatology
Raloxifene-4'-Glucuronide; Raloxifene-6-Glucuronide	LC/MS/MS	2 - 200 ng/mL; 0.4 - 40 ng/mL	Human EDTA Plasma	Rheumatology
Ramipril; Ramiprilat	LC/MS/MS	50-50000 pg/mL; 200-80000 pg/mL	Human EDTA Plasma	Cardiovascular
Ramipril	LC/MS/MS	50-50000 pg/mL	Human EDTA Plasma	Cardiovascular
Ramoplanin	LC/MS/MS	10-1000 ng/mL	Human EDTA Plasma	Antibiotics
Ramoplanin	LC/MS/MS	6-666 ng/mL	Human Urine	Antibiotics
Ranelic Acid	LC/MS/MS	4-800ng/mL	Human EDTA Plasma	Osteoporosis
Ranolazine	LC/MS/MS	5-5000 ng/mL	Human EDTA Plasma	Cardiovascular

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Compound (Metabolite)	Bioanalytical Method	Calibration Range	Bioanalytical matrix	Class
Ranitidine	LC/MS/MS	4-1600 ng/mL	Human EDTA Plasma	Gastrointestinal
Rasagiline	LC/MS/MS	10-10000 pg/mL	Human EDTA Plasma	Antiparkinsonian Agent, Antidyskinetic
Regorafenib; Regorafenib-N-oxide	LC/MS/MS	2-1200 ng/mL; 1-600 ng/mL	Human EDTA Plasma	Oncology
Repaglinide	LC/MS/MS	0.1 - 50 ng/mL	Human EDTA Plasma	Endocrinology
Resveratrol; Resveratrol Sulfate; Resveratrol-3-glucuronide; Resveratrol-4-Glucuronide	LC/MS/MS	5-5000 ng/mL; 5-5000 ng/mL; 2-2000 ng/mL; 2-2000 ng/mL	Human EDTA Plasma	Polyphenol
Rhein	LC/MS/MS	50-5000 ng/mL	Human EDTA Plasma	Miscellaneous
Ribavirin	LC/MS/MS	10-5000 ng/mL	Human EDTA Plasma	Infectious Disease
Rifampin	LC/MS/MS	0.5-50 ng/mL	Human EDTA Whole Blood	Antitubercular
Rifampin	LC/MS/MS	50-12500 ng/mL	Human Whole Blood	Antitubercular
Rifaximin	LC/MS/MS	20-2000 pg/mL	Human EDTA Plasma	Infectious Disease
Rilpivirine	LC/MS/MS	0.5-500 ng/mL	Human EDTA Plasma	Antiviral
Riluzole	LC/MS/MS	0.5-500 ng/mL	Human EDTA Plasma	Central Nervous System Agents
Riluzole; Riluzolamide	LC/MS/MS	0.5-500 ng/mL	Human EDTA Plasma	Central Nervous System Agents
Riociguat	LC/MS/MS	0.5-500 ng/mL	Human EDTA Plasma	Respiratory
Risedronic Acid	LC/MS/MS	50-50000 pg/mL	Human EDTA Plasma	Endocrinology, Rheumatology
Risperidone; 9-Hydroxyrisperidone (paliperidone)	LC/MS/MS	100-50000 pg/mL; 100-25000 pg/mL	Human EDTA Plasma	Central Nervous System Agents
Ritonavir	LC/MS/MS	5-1000 ng/mL	Human EDTA Plasma	Infectious Disease
Ritonavir; Darunavir; Lopinavir	LC/MS/MS	10-10000 ng/mL; 2-2000 g/mL; 10-10000 ng/mL	Human EDTA Plasma	Infectious Disease
Rivaroxaban	LC/MS/MS	0.5-500 ng/mL	Human EDTA Plasma	Cardiovascular

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Compound (Metabolite)	Bioanalytical Method	Calibration Range	Bioanalytical matrix	Class
Rivastigmine	LC/MS/MS	40-4000 pg/mL	Human EDTA Plasma	Central Nervous System Agents
Rizatriptan	LC/MS/MS	100-40000 pg/mL	Human EDTA Plasma	Pain
Rizatriptan; N-Desmethyl Rizatrptan	LC/MS/MS	100-40000 pg/mL;10-4000 pg/mL	Human EDTA Plasma	Pain
Roflumilast	LC/MS/MS	100-20000 pg/mL	Human EDTA Plasma	Respiratory
Ropinirole	LC/MS/MS	1-50 ng/mL	Human EDTA Plasma	Central Nervous System Agents
Ropinirole	LC/MS/MS	5-1000 pg/mL	Human EDTA Plasma	Central Nervous System Agents
Rosiglitazone	LC/MS/MS	2-900 ng/mL	Human EDTA Plasma	Endocrinology
Rosuvastatin	LC/MS/MS	20-25000pg/mL	Human EDTA Plasma	Cardiovascular
Rosuvastatin	LC/MS/MS	80-40000 pg/mL	Human EDTA Plasma	Cardiovascular
Rotigotine	LC/MS/MS	5-2000 pg/mL	Human EDTA Plasma	Central Nervous System Agents
R-Selegiline	LC/MS/MS	50-5000 ng/mL	Human EDTA Plasma	Central Nervous System Agents
R-Selegiline; N-Desmethyl Selegiline; L-Amphetamine; L-Methamphetamine	LC/MS/MS	50-5000 pg/mL; 25-2500 pg/mL; 20-2500pg/mL; 15-6000 pg/mL	Human EDTA Plasma	Central Nervous System Agents
R-Selegiline; N-Desmethyl Selegiline; L-Amphetamine; L-Methamphetamine	LC/MS/MS	40-8000 pg/mL; 100-20000 pg/mL; 50-20000 pg/mL; 50-20000 pg/mL	Human Urine	Central Nervous System Agents
R-Selegiline; N-Desmethyl Selegiline; L-Amphetamine; L-Methamphetamine	LC/MS/MS	10-10000 pg/mL; 50-5000 pg/mL; 20-8000 pg/mL; 20-8000 pg/mL	Rat Plasma	Central Nervous System Agents
Ruxolitinib	LC/MS/MS	1-1000 ng/mL	Human EDTA Plasma	Oncology
S-(+)-Ibuprofen; R-(-)-Ibuprofen	LC/MS/MS	100-20000 ng/mL	Human EDTA Plasma	Pain
Sacubitril; LBQ657	LC/MS/MS	1-2500 ng/mL; 100-10000 ng/mL	Human EDTA Plasma	Anti-hypertensive
Salmeterol	LC/MS/MS	1-500 pg/mL	Human EDTA Plasma	Bronchodilator
Saxagliptin; 5-Hydroxy-Saxagliptin	LC/MS/MS	100-50000 pg/mL; 200-100000 pg/mL	Human EDTA Plasma	Antidiabetic

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Compound (Metabolite)	Bioanalytical Method	Calibration Range	Bioanalytical matrix	Class
Spironolactone; Canrenone	LC/MS/MS	0.5-100 ng/mL	Human EDTA Plasma	Cardiovascular
Stavudine	LC/MS/MS	2.5-2000 ng/mL	Human EDTA Plasma	Infectious Disease
Strontium	ICP/MS	100-20000 ng/ml	Human Lithium Heparinized Plasma	Osteoporosis
Sulfamethoxazole; Trimethoprim	LC/MS/MS	0.5-200 µg/mL; 10-4000 ng/mL	Human EDTA Plasma	Antibacterial
Sulfasalazine	LC/MS/MS	20-40000 pg/mL	Human Sodium Heparinized Plasma	Pain, Rheumatology
Sulfasalazine; Sulfapyridine; Mesalamine	LC/MS/MS	20-20000 ng/mL; 10-10000 ng/mL; 2.5-2500 ng/mL	Human EDTA Plasma	Inflammatory
Sumatriptan	LC/MS/MS	0.5-50 ng/mL	Human EDTA Plasma	Pain
Sunitinib	LC/MS/MS	0.25 - 100 ng/mL	Human EDTA Plasma	Oncology
Sunitinib; N-Desethyl-Sunitinib	LC/MS/MS	0.25-100 ng/mL	Human EDTA Plasma	Oncology
Tacrolimus	LC/MS/MS	50- 50000 pg/mL	Whole blood	Immunology
Tadalafil	LC/MS/MS	5-2500 ng/mL	Human EDTA Plasma	Cardiovascular
Tamoxifen; 4-hydroxytamoxifen; N-desmethyl 4-hydroxytamoxifen; N-desmethyltamoxifen	LC/MS/MS	0.25 - 100ng/mL; 0.1 - 40 ng/mL; 0.1 - 40 ng/mL; 0.25 - 100 ng/mL	Human EDTA Plasma	Oncology
Tamoxifen; N-Desmethyl-Tamoxifen	LC/MS/MS	0.5-50 ng/mL; 0.5-25 ng/mL	Human EDTA Plasma	Oncology
Tamoxifen; Endoxifen	LC/MS/MS	0.5-500 ng/mL; 0.25-250 ng/mL	Human EDTA Plasma	Oncology
Tamsulosin	LC/MS/MS	100-30000 pg/mL	Human EDTA Plasma	Genitourinary
Tapentadol	LC/MS/MS	200-100000 pg/mL	Human EDTA Plasma	Opioid
Telmisartan	LC/MS/MS	1-500 ng/mL	Human EDTA Plasma	Cardiovascular
Temozolomide	LC/MS/MS	100-25000 ng/mL	Human Plasma	Oncology
Tenofovir	LC/MS/MS	0.5-500 ng/mL	Human Serum	Antiretroviral (HIV)

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Compound (Metabolite)	Bioanalytical Method	Calibration Range	Bioanalytical matrix	Class
Terbinafine	LC/MS/MS	25-12500 pg/mL	Human EDTA Plasma	Infectious Disease, Dermatology
Terbinafine	LC/MS/MS	10-5000 ng/mL	Human Nails	Infectious Disease, Dermatology
Terbinafine	LC/MS/MS	1-500 ng/mL	Rat EDTA Plasma	Infectious Disease, Dermatology
Teriflunomide	LC/MS/MS	30-3000 ng/mL	Human EDTA Plasma	Central Nervous System Agents
Testosterone	LC/MS/MS	5-5000 ng/Tip	Polyester-tipped Applicators	Endocrinology
Testosterone	LC/MS/MS	60-12000 pg/mL	Human Serum	Endocrinology
Testosterone	GC/MS/MS	0.25 - 100 pg/mL	Human Serum	Endocrinology
Testosterone	GC/MS/MS	0.5 - 100 pg/mL	Human EDTA Ultrafiltrate	Endocrinology
Testosterone	GC/MS/MS	50 - 7500 pg/mL	Human Heparin Plasma	Endocrinology
Testosterone Undecanoate; Dihydrotestosterone Undecanoate	LC/MS/MS	1-1000 ng/mL; 0.5-500 ng/mL	Human NaF/Na ₂ EDTA Plasma	Endocrinology
Testosterone; Dihydrotestosterone	LC/MS/MS	100-30000pg/mL;50-5000 pg/mL	Human NaF/Na ₂ EDTA Plasma	Endocrinology
Testosterone; Dihydrotestosterone	LC/MS/MS	100-30000pg/mL;100-5000 pg/mL	Human NaF/Na ₂ EDTA Plasma	Endocrinology
Theophylline	LC/MS/MS	20 - 2000 ng/mL	Human EDTA Plasma	Respiratory
Thiorphan	LC/MS/MS	0.5-250 ng/mL	Human Plasma	Gastrointestinal
Thromboxane B2	LC/MS/MS	10 -10000 pg/mL	Human Serum	Endocrinology
Tiagabine	LC/MS/MS	0.5-1000 ng/ml	Human EDTA Plasma	Anticonvulsant; Antiepileptic
Tibolone	LC/MS/MS	25-5000 pg/mL	Human EDTA Plasma	Endocrinology
Tibolone Delta-4	LC/MS/MS	75-2500 pg/mL	Human EDTA Plasma	Endocrinology

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Compound (Metabolite)	Bioanalytical Method	Calibration Range	Bioanalytical matrix	Class
Ticagrelor; AR-C124910XX	LC/MS/MS	5-1000ng/mL	Human EDTA Plasma	Cardiovascular
Ticlopidine	LC/MS/MS	1-1000 ng/mL	Human EDTA Plasma	Cardiovascular
Tinidazole	LC/MS/MS	40-40000 ng/mL	Human EDTA Plasma	Anti-infective
Tizanidine	LC/MS/MS	50-25000 pg/mL	Dog EDTA Plasma	Central Nervous System Agents
Tizanidine	LC/MS/MS	1-500 ng/mL	Rat EDTA Plasma	Central Nervous System Agents
Tizanidine	LC/MS/MS	0.05 - 10 ng/mL	Human EDTA Plasma	Central Nervous System Agents
Tizanidine; Tizanidine-M4	LC/MS/MS	50-2500pg/mL; 100-50000 pg/mL	Human EDTA Plasma	Central Nervous System Agents
Tobramycin	LC/MS/MS	20-1000 ng/mL	Human Serum	Infectious Disease
Tobramycin	LC/MS/MS	0.5-50 µg/mL	Human Sputum	Infectious Disease
Tolterodine; 5-Hydroxymethyl Tolterodine	LC/MS/MS	49.90-9980; 50-10000 pg/mL	Human EDTA Plasma	Genitourinary
Tolvaptan	LC/MS/MS	2-800 µg/mL	Human EDTA Plasma	Cardiovascular
Torseamide	LC/MS/MS	0.5 -200; 100-25,000ng/mL	Human EDTA Plasma	Cardiovascular
Transferin Bound Iron	ICP/MS	200-25000 ng/mL	Human Serum	Anemia
Tramadol	LC/MS/MS	1-400 ng/mL	Human EDTA Plasma	Pain
Tramadol; O-Desmethyltramadol	LC/MS/MS	0.5-200 ng/mL; 0.5-50 ng/mL	Human EDTA Plasma	Pain
Tramadol; O-Desmethyltramadol Chiral	LC/MS/MS	0.5-100 ng/mL; 0.25-25 ng/mL	Human EDTA Plasma	Pain
Trandolapril; Trandolaprilat	LC/MS/MS	25-1000 pg/mL; 50-2000 pg/mL	Human EDTA Plasma	Cardiovascular
Tranlycypromine	LC/MS	1-50 ng/mL	Human EDTA Plasma	Central Nervous System Agents
Trazodone	LC/MS/MS	10-2,000 ng/mL	Human Lithium Heparinized Plasma	Central Nervous System Agents

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Compound (Metabolite)	Bioanalytical Method	Calibration Range	Bioanalytical matrix	Class
Trehalose	LC/MS/MS	10-10000 ug/mL	Human EDTA Plasma	Dissacharride
Tretinoin	LC/MS/MS	1-1000 ng/mL	Human NaF/K ₂ C ₂ O ₄ plasma	Dermatology
Triamcinolone Acetonide	LC/MS/MS	100-8000 pg/ml	Rabbit EDTA Plasma	Pain, Dermatology
Triamcinolone Acetonide	LC/MS/MS	50-5000 pg/mL	Human Synovial Fluid	Pain, Dermatology
Triamcinolone Acetonide	LC/MS/MS	10-5000 pg/mL	Human EDTA Plasma	Pain, Dermatology
Trimetazidine	LC/MS/MS	1-200 ng/mL	Human EDTA Plasma	Cardiovascular
Trimethoprim	LC/MS/MS	10-4000 ng/mL	Human EDTA Plasma	Antibiotics
Tropium	LC/MS/MS	4-2000 pg/mL	Human EDTA Plasma	Genitourinary
Ulipristal and N-desmethylulipristal	LC/MS/MS	0.5-500; 0.2-200ng/mL	Human EDTA Plasma	Endocrinology
Urapidil	LC/MS/MS	1-1000 ng/mL	Human EDTA Plasma	Cardiovascular
Uric Acid	LC/MS/MS	10-200 ug/mL	Human EDTA Plasma	Biomarker
Ursodiol; Tauroursodeoxycholic Acid; Glycoursodeoxycholic Acid	LC/MS/MS	6-6000; 0.5-250; 12-6000 ng/mL	Human EDTA Plasma	Gastrointestinal
Valacyclovir	LC/MS/MS	1-400 ng/mL	Human EDTA Plasma	Infectious Disease
Valproic Acid	LC/MS/MS	0.5-100 µg/mL	Human EDTA Plasma	Central Nervous System Agents
Valsartan	LC/MS/MS	20-10000 ng/mL	Human EDTA Plasma	Cardiovascular
Vardenafil	LC/MS/MS	80-40000 pg/mL	Human EDTA Plasma	Cardiovascular
Venlafaxine; O-Desmethylvenlafaxine	LC/MS/MS	1-200 ng/mL; 2-200 ng/mL	Human EDTA Plasma	Central Nervous System Agents
Vigabatrin	LC/MS/MS	50-50000 ng/mL	Human EDTA Plasma	Epilepsy
Vildagliptin	LC/MS/MS	1-2000 ng/mL	Human EDTA Plasma	Antidiabetic

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Compound (Metabolite)	Bioanalytical Method	Calibration Range	Bioanalytical matrix	Class
Vinorelbine	LC/MS/MS	1-1000 ng/mL	Human EDTA Plasma	Oncology
Vortioxetine	LC/MS/MS	100-20000 pg/mL	Human EDTA Plasma	antidepressant
Voriconazole	LC/MS/MS	5-2000 ng/mL	Human EDTA Plasma	Infectious Disease, Dermatology
Warfarin Chiral	LC/MS/MS	10-2000ng/mL	Human Lithium Heparinized Plasma	Cardiovascular
Zaleplon	LC/MS/MS	100-45000 pg/mL	Human EDTA Plasma	Central Nervous System Agents
Zanamivir	LC/MS/MS	10-10000 ng/ml	Human Serum	Antiviral
Zanamivir	LC/MS/MS	10-650 µg/ml	Human Urine	Antiviral
Zidovudine	LC/MS/MS	2-4000 ng/mL	Human EDTA Plasma	Infectious Disease
Zinc	ICP/MS	0.4-50 µg/ml	Rat EDTA Plasma	Biomarker
Zinc	ICP/MS	0.4-50 µg/ml	Rat Serum	Biomarker
Ziprasidone	LC/MS/MS	0.25-250 ng/mL	Human EDTA Plasma	Central Nervous System Agents
Zoledronic Acid	LC/MS/MS	1-250 ng/mL	Human Serum	Oncology
Zoledronic Acid	LC/MS/MS	1-250 ng/mL	Human Urine	Oncology
Zolmitriptan; N-Desmethylzolmitriptan	LC/MS/MS	100-20000 pg/mL; 50-10000 pg/mL	Human EDTA Plasma	Pain
Zolpidem	LC/MS/MS	1-250 ng/mL	Human EDTA Plasma	Central Nervous System Agents
Zonisamide	LC/MS/MS	20-2500 ng/mL	Human EDTA Plasma	Central Nervous System Agents
Zonisamide	LC/MS/MS	50-2500 ng/mL	Human Serum	Central Nervous System Agents
Zonisamide	LC/MS/MS	25-5000 ng/mL	Human Whole Blood	Central Nervous System Agents

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Compound (Metabolite)	Bioanalytical Method	Calibration Range	Bioanalytical matrix	Class
Zopiclone	LC/MS/MS	0.3-150 ng/mL	Human EDTA Plasma	Central Nervous System Agents



Biosimilar Assays

Compound (Metabolite)	Bioanalytical Method	Calibration Range	Bioanalytical matrix
Adalimumab (Humira)	ECL	250-10000 ng/mL	Human Serum
Bevacizumab (Avastin)	ELISA	62.5-2000 ng/mL	Human Serum
Infliximab (Remicade)	ECL	500-100000 ng/mL	Human Serum
Nivolumab	ECL	100-8000 ng/mL	Human Serum
Pembrolizumab	ECL	500-100000 ng/mL	Human Serum
Rituximab (Rituxin)	ELISA	250-6000 ng/mL	Human Serum



Bioanalytical Ligand Binding Assays

Compound (Metabolite)	Bioanalytical Method	Calibration Range	Bioanalytical matrix
Avonex	ELISA	5 - 200 pg/mL	Human Serum
Betaseron	ELISA	5 - 200 pg/mL	Human Serum
Bevacizumab	ELISA	62.5 - 2000 ng/mL	Human Serum
Cortisol	RIA	5-200 ng/mL	Human Serum
C-reactive protein	ELISA	0.781 - 25 ng/mL	Human Serum
C-Peptide	RIA	156.25-5000 pg/mL	Human Plasma
Digoxin	RIA	100-5000 pg/mL	Human Serum
Erythropoietin (EPO)	ELISA	2.5-200 mIU/mL	Human Serum
Extavia	ELISA	5 - 200 pg/mL	Human Serum
Follicle stimulating hormone (FSH)	ELISA	1-100 mIU/mL	Human Serum
G-CSF	ELISA	70 - 5000 pg/mL	Human Serum
Glucose	Colorimetric Assay	120-3000 ug/mL	Human Serum
Human Growth Hormone (HGH)	ELISA	0.3 - 45 ng/mL	Human Serum
Human Growth hormone (HGH)	RIA	1-40 ng/mL	Human Serum
Human Growth hormone (HGH)	ELISA	0.1-15 ng/mL	Human Serum
Humira (Adalimumab)	ELISA	250 - 10000 ng/mL	Human Serum
IGF-1	ELISA	31.25 - 1000 ng/mL	Human Serum
IGFBP3	ELISA	39.1 - 5000 ng/mL	Human Serum

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Compound (Metabolite)	Bioanalytical Method	Calibration Range	Bioanalytical matrix
Interleukin-6 (IL-6)	ELISA	4 - 1024 pg/mL	Human Serum
Insulin-like Growth factor-1 (IGF-1)	ELISA	9.4-600 ng/mL	Human Serum
Insulin-like Growth factor-1 (IGF-1)	ELISA	31.25 - 1000 ng/mL	Human Serum
Interferon	ELISA	0-4 IU/mL	Human Plasma
Interferon alpha2b	ELISA	20-2500 pg/mL	Human Serum
Levothyroxine (T4)	RIA	20-250 ng/mL	Human Serum
Liothyronine (T3)	RIA	0.25-10 ng/mL	Human Serum
LMWH-IIa	ELISA	0.04 - 0.5 IU/mL	Human Sodium Citrate Plasma
Luteinizing hormone (LH)	ELISA	1 -100 mIU/mL	Human Serum
LWMH-Xa	ELISA	0.04 - 0.32 IU/mL	Human Sodium Citrate Plasma
Nivolumab	ECL	100-8000 ng/mL	Human Serum
Pegfilgrastin (Peg-G-CSF)	ELISA	15 - 800 ng/mL	Rabbit Serum
Pegfilgrastin (Peg-G-CSF)	ELISA	30 - 3500 ng/mL	Monkey Serum
Pegfilgrastin (Peg-G-CSF)	ELISA	1-250 ng/mL	Human Serum
Pegfilgrastin (Peg-G-CSF)	ELISA	70 - 5000 pg/mL	Human EDTA Plasma
Pegfilgrastin (Peg-G-CSF)	ELISA	70 - 5000 pg/mL	Human Serum
Pegylated Interferon alpha2a (Pegasys)	ELISA	312-40000 pg/mL	Human Serum
Pembrolizumab	ECL	500-100000 ng/mL	Human Serum
Rebif	ELISA	5 - 200 pg/mL	Human Serum
rHU-EPO	ELISA	10 - 2500 mIU/mL	Dog Serum

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Compound (Metabolite)	Bioanalytical Method	Calibration Range	Bioanalytical matrix
rHU-EPO	ELISA	10 - 2500 mIU/mL	Rat Serum
rHU-EPO	ELISA	10 - 500 mIU/mL	Human Serum
Tissue Factor Pathway Inhibitor	ELISA	50-1000 pg/mL	Human Sodium Citrate Plasma
TNF-alpha	ELISA	0.25 - 128 pg/mL	Human Serum



Bioanalytical ICP-MS Assays

Compound (Metabolite)	Bioanalytical Method	Calibration Range*	Bioanalytical matrix
Bismuth	ICP-MS	2-50 ng/ml	Human EDTA Plasma
Calcium/Magnesium/Phosphorus	ICP-MS	10-500/10-500/50-2500 µg/mL	Human Urine
Calcium/Magnesium/Phosphorus	ICP-MS	30-1500/5-250/30-1500 µg/mL	Human Serum
Carboplatin Free	ICP-MS	100-40000 ng/mL	Human EDTA Plasma
Carboplatin Total	ICP-MS	100-40000 ng/mL	Human EDTA Plasma
Cisplatin Total	ICP-MS	0.2-20 µg/mL	Human EDTA Plasma
Cisplatin Free	ICP-MS	40-8000 ng/mL	Human EDTA Plasma
Iron (total)	ICP-MS	200-50000 ng/mL	Human Serum
Transferin Bound Iron (TBI)	ICP-MS	200-25000 ng/mL	Human Serum
Lithium	ICP-MS	20-10000 ng/mL	Human EDTA Plasma
Oxaliplatin Total	ICP-MS	5-10000 ng/mL	Human EDTA Plasma
Oxaliplatin Free	ICP-MS	2-4000 ng/mL	Human EDTA Plasma
Platinum	ICP-MS	100-40000 ng Pt/mL	Human EDTA Plasma
Potassium	ICP-MS	100-10000 µg/mL	Human Urine
Sodium	ICP-MS	100-10000 µg/mL	Human Urine
Strontium	ICP-MS	100-20000 ng/ml	Human Lithium Heparinized Plasma
Zinc*	ICP-MS	0.4-50 µg/mL	Rat EDTA Plasma
Zinc*	ICP-MS	0.4-50 µg/mL	Rat serum

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Zinc*	ICP-MS	0.4-50 µg/mL	Dog serum
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*Qualified Assays



Bioanalytical Biomarkers Assays

Compound (Metabolite)	Bioanalytical Method	Calibration Range	Matrix
2,3-Dinor-6-Keto PGF1Alpha; 11-Dehydro-Thromboxane B2; Tetranor-PGEM	GC/MS/MS	20-500pg/mL; 40-2000pg/mL; 200-10,000pg/mL	Human Urine
Adiponectin	ELISA	3.9-250 ng/mL	Human Serum
BSAP	EIA	2-140 U/L	Human Serum
Calcium/Magnesium/Phosphorus	ICP-MS	10-500/10-500/50-2500 µg/mL	Human Urine
Calcium/Magnesium/Phosphorus	ICP-MS	30-1500/5-250/30-1500 µg/mL	Human Serum
Calcitriol (1,25-Dihydrovitamin-D3)	LC/MS/MS	20-400 pg/mL	Human EDTA Plasma
Cholecalciferol	LC/MS/MS	0.5-50 ng/mL	Human EDTA Plasma
Citrate	LC/MS/MS	10-2000 ug/mL	Human Urine
Cortisol	LC/MS/MS	1-400 ng/mL	Human Serum
Creatinine	LC/MS/MS	500-10000 ug/mL	Human Urine
Creatinine	LC/MS/MS	2-100 ug/mL	Human Serum
CTX	ELISA	0.16-2.73 ng/mL	Human Serum
C-Reactive Protein	ELISA	0.781-25 ng/mL	Human Serum
C-Peptide	RIA	156.25-5000 pg/mL	Human plasma
1-Alpha,25 Dihydroxyvitamin D2	LC/MS/MS	2-50 pg/ ml	Human EDTA Plasma
Eicosapentaenoic Acid (EPA); Docosahexaenoic Acid (DHA)	LC/MS/MS	2-200 µg/mL; 10-1000 µg/mL	Human EDTA Plasma
Ergocalciferol	LC/MS/MS	100-100000 pg/mL	Human EDTA Plasma

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Compound (Metabolite)	Bioanalytical Method	Calibration Range	Matrix
Estradiol	LC/MS/MS	1-100 pg/mL	Human EDTA Plasma
Estradiol	LC/MS/MS	1-50 pg/mL	Human EDTA Plasma
Estradiol	LC/MS/MS	2.5-250 pg/mL	Human EDTA Plasma
Estrone; Estradiol	LC/MS/MS	5-1000 pg/mL; 2.5-500 pg/mL	Human EDTA Plasma
Estrone (Total)	LC/MS/MS	25-2500 pg/mL	Human EDTA Plasma
Estrone (Total)	LC/MS/MS	50-100000 pg/mL	Human EDTA Plasma
Follicle stimulating hormone (FSH)	ELISA	1-100 mIU/mL	Human Serum
Human Growth Hormone (HGH)	ELISA	0.3 - 45 ng/mL	Human Serum
Human Growth hormone (HGH)	RIA	1-40 ng/mL	Human Serum
Human Growth hormone (HGH)	ELISA	0.1-15 ng/mL	Human Serum
Human Insulin (Novolin R)	ELISA	280-8960 pg/mL	Human serum
Insulin-like Growth factor-1 (IGF-1)	ELISA	9.4-600 ng/mL	Human Serum
Insulin-like Growth factor-1 (IGF-1)	ELISA	31.25 - 1000 ng/mL	Human Serum
IGFBP3	ELISA	31.25-1000 ng/mL	Human Serum
Interleukin-6 (IL-6)	ELISA	4-1024 pg/mL	Human Serum
Iron (total)	ICP/MS	200-50000 ng/mL	Human Serum
Transferin Bound Iron	ICP/MS	200-25000 ng/mL	Human Serum
L-Citrulline	LC/MS/MS	150-10,000ng/mL	Human EDTA Plasma
Leptin	ELISA	31.25-2000 pg/mL	Human Serum
Levothyroxine (T4)	LC/MS/MS	25-250 ng/mL	Human Serum

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Compound (Metabolite)	Bioanalytical Method	Calibration Range	Matrix
Levothyroxine (T4); Liothyronine(T3)	LC/MS/MS	2.5-1000 ng/mL; 0.25-100 ng/mL	Human Serum
Leukotriene B4	LC/MS/MS	25-12500 pg/mL	Human EDTA Plasma
Leukotriene B4	LC/MS/MS	25-12500 pg/mL	Human Urine
LMWH-IIa	ELISA	0.04-0.32 IU/mL	Human Sodium Citrate Plasma
LWMH-Xa	ELISA	0.04-0.32 IU/mL	Human Sodium Citrate Plasma
Luteinizing hormone (LH)	ELISA	1-100 mIU/mL	Human Serum
Myostatin	ELISA	390.625-25000 pg/mL	Human Serum
Niacin	LC/MS/MS	25-10000 ng/mL	Human EDTA Plasma
Nicotinuric Acid	LC/MS/MS	2-800 ng/mL	Human EDTA Plasma
Pegylated Interferon Alpha2a (Pegasys)	ELISA	312-40000 pg/mL	Human Serum
Potassium	ICP-MS	100-10000 ug/mL	Human Urine
Progesterone	LC/MS/MS	20-20000 pg/mL	Human Plasma
SHBG	ELISA	60-4000 pmol/L	Human Serum
Sodium	ICP-MS	100-10000 ug/mL	Human Urine
T3 (Total)	RIA	0.25-10 ng/mL	Human Serum
Testosterone	LC/MS/MS	60-12000 pg/mL	Human Serum
Thromboxane B2	LC/MS/MS	10 -10000 pg/mL	Human EDTA Plasma
Tissue Factor Pathway Inhibitor	ELISA	50-1000 pg/mL	Human Sodium Citrate Plasma
TNF-alpha	ELISA	0.25-128 pg/mL	Human Serum

Bioanalytical Assay List 2019-11-12