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Altasciences Clinical Research

# Assay List

December 2018

## Method Status: Validated - Large Molecule

Compound [Metabolite]	Species	Matrix	Anticoagulant	Sample Volume	Platform	Concentration Range
Albumin	Human	Serum	N/AP	0.05 mL	LBA-Colorimetric-Biotek	7.5 - 50 mg/mL
Butyrylcholinesterase	Human	Plasma	EDTA	0.05 mL	LBA-fluorometric	0.3 - 20 mU/mL
Ceruloplasmin	Human	Serum	N/AP	0.05 mL	LBA-ELISA-Biotek	2 - 75 ng/mL
Ceruloplasmin Ferroxidase Activity	Human	Serum	N/AP	0.015 mL	LBA-Colorimetric-Biotek	125 - 1000 mU/mL
C-Reactive protein	Human	Plasma	EDTA	0.02 mL	LBA-ELISA-Biotek	1.529 - 49 µIU/mL
Endothelin-1	Human	Plasma	EDTA	0.12 mL	LBA-ELISA-Biotek	0.5 - 12.50 pg/mL
Endothelin-1	Human	Plasma	EDTA	0.3 mL	LBA-ELISA-Biotek	0.5 - 12.5 pg/mL
Exenatide (human)	Human	Plasma	EDTA	0.5 mL	MS/MS 5000	10 - 2000 pg/mL
Exenatide (rat)	Rat	Plasma	EDTA	0.050 mL	MS/MS 5000	0.1 - 20 ng/mL
Glucagon	Human	Plasma	EDTA	0.225 mL	MS/MS 5000	0.1 - 10 ng/mL
Glucagon	Human	Plasma	EDTA	0.45 mL	MS/MS 5000	10 - 500 pg/mL
Glucagon	Mini-pig	Plasma	EDTA	0.1 mL	MS/MS 5000	0.2 - 40 ng/mL
Glucagon	Monkey	Plasma	EDTA	0.05 mL	MS/MS 5000	0.4 - 40 ng/mL
Glucagon	Rat	Plasma	EDTA	0.05 mL	MS/MS 5000	0.4 - 40 ng/mL
Glucagon	Dog	Plasma	EDTA	0.05 mL	MS/MS 5000	0.4 - 40 ng/mL
Glucagon (low volume)	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	0.1 - 10 ng/mL
Heparin	Human	Plasma	SodiumCitrate	0.05 mL	LBA-Chromogenic-Biotek	0.05 - 1.2 IU/mL
Insulin glargine	Human	Plasma	EDTA	0.5 mL	MS/MS 5000	50 - 10000 pg/mL
[Insulin glargine M1]	Human	Plasma	EDTA	0.5 mL	MS/MS 5000	50 - 10000 pg/mL
[Insulin glargine M2]	Human	Plasma	EDTA	0.5 mL	MS/MS 5000	50 - 10000 pg/mL
Interleukin-1 Beta	Human	Urine	N/AP	0.08 mL	LBA-ELISA-MSD	20 - 7500 IU/dL
Interleukin-6 (with TNF-alpha)	Human	Serum	N/AP	0.07 mL	LBA-ELISA-MSD	0.644 - 170.7 pg/mL
Lanreotide	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	50 - 15000 pg/mL
Lipid Peroxidation (Thiobarbituric Acid Reactive Substances (TBARS))	Human	Urine	N/AP	0.3 mL	LBA-Spectrophotometric-Biotek	260 - 16700 nM
Monocyte Chemoattractant Protein-1	Human	Urine	N/AP	0.05 mL	LBA-ELISA-MSD	28 - 2280 mU/mL
Octreotide	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	40 - 5000 pg/mL
Protein Carbonyl	Human	Serum	N/AP	0.02 mL	LBA-ELISA-Biotek	0.375 - 6 nmol/mg
Protein concentration	Human	Serum	N/AP	0.02 mL	LBA-ELISA-Biotek	50 - 2000 µg/mL
Rituximab	Human	Plasma	EDTA	0.05 mL	MS/MS 5000	4 - 400 µg/mL

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Sex Hormone Binding Globulin (SHBG)	Human	Serum	N/AP	0.05 mL	LBA-ELISA-Biotek	62.5 - 2000 pmol/L
Superoxide Dismutase Activity	Human	Serum	N/AP	0.06 mL	LBA-Spectrophotometric-Biotek	115 - 1150 U/L
TNF-alpha (with Interleukin-6)	Human	Serum	N/AP	0.07 mL	LBA-ELISA-MSD	0.61 - 80 pg/mL
Total Antioxidant Capacity (Trolox)	Human	Serum	N/AP	0.03 mL	LBA-Spectrophotometric-Biotek	20 - 200 µM
Total protein	Nap	nap	N/AP	0.025 mL	LBA-Colorimetric	50 - 2000 µg/mL

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Compound [Metabolite]	Species	Matrix	Anticoagulant	Sample Volume	Platform	Concentration Range
(1S,2S)-(+)-Pseudoephedrine	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	2 - 600 ng/mL
1,3-Propanediol	Rat	Plasma	EDTA	0.025 mL	MS/MS 5000	0.2 - 100 µg/mL
3-Ketodesogestrel (after desogestrel administration)	Human	Plasma (Female)	EDTA	0.5 mL	MS/MS 5000	25 - 5000 pg/mL
8-Hydroxy-2-deoxyguanosine	Human	Urine	N/AP	0.16 mL	LBA-ELISA-Biotek	35.6 - 612 ng/mL
Abacavir (with Lamivudine)	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	25 - 10000 ng/mL
Abiraterone	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	0.2 - 250 ng/mL
Acetaminophen	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	0.1 - 30 µg/mL
Acetazolamide	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	0.1 - 40 µg/mL
Acetylsalicylic acid	Human	Plasma	NaF/Potassium oxalate	0.1 mL	MS/MS 5000	5 - 5000 ng/mL
Acetylsalicylic Acid	Human	Plasma	NaF/Potassium oxalate	0.1 mL	MS/MS 5000	1 - 1000 ng/mL
[Salicylic acid]	Human	Plasma	NaF/Potassium oxalate	0.1 mL	MS/MS 5000	50 - 20000 ng/mL
Acetylsalicylic Acid (dog)	Dog	Plasma	NaF/Potassium oxalate	0.025 mL	MS/MS 5000	2 - 2000 ng/mL
[Salicylic Acid (dog)]	Dog	Plasma	NaF/Potassium oxalate	0.025 mL	MS/MS 5000	400 - 50000 ng/mL
Acetylsalicylic Acid (rat)	Rat	Plasma	NaF/Potassium oxalate	0.025 mL	MS/MS 5000	2 - 2000 ng/mL
[Salicylic Acid (rat)]	Rat	Plasma	NaF/Potassium oxalate	0.025 mL	MS/MS 5000	400 - 50000 ng/mL
Adapalene	Human	Plasma	EDTA	0.5 mL	MS/MS 5500	50 - 1500 pg/mL
Afatinib	Human	Plasma	EDTA	0.3 mL	MS/MS 3000	0.5 - 70 ng/mL

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Agomelatine	Human	Plasma	EDTA	0.3 mL	MS/MS 3000	0.02 - 40 ng/mL
Alendronate	Human	Urine	N/AP	2 mL	HPLC-FL	5 - 1000 ng/mL
Allopurinol	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	20 - 5000 ng/mL
Almotriptan	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	0.5 - 100 ng/mL
Alprazolam	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	50 - 50000 pg/mL
Alverine	Human	Plasma	EDTA	0.150 mL	MS/MS 5000	5 - 4000 pg/mL
Amantadine	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	2 - 2000 ng/mL
Ambrisentan	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	10 - 1500 ng/mL
Amifampridine	Human	Urine	N/AP	0.05 mL	MS/MS 5000	4 - 2000 ng/mL
[3-N-Acetylamifampridine]	Human	Urine	N/AP	0.05 mL	MS/MS 5000	4 - 2000 ng/mL
Amiloride	Human	Plasma	EDTA	0.5 mL	HPLC-FL	0.5 - 40 ng/mL
Aminocaproic acid	Human	Plasma	EDTA	0.05 mL	MS/MS 5000	0.1 - 60 µg/mL
Amiodarone	Human	Plasma	EDTA	0.5 mL	LC-MSD	10 - 1500 ng/mL
Amlodipine (with Bisoprolol)	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	50 - 30000 pg/mL
Amlodipine	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	50 - 15000 pg/mL
Amoxicillin	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	0.2 - 40 µg/mL
Amphetamine Chiral (R) (l-Amphetamine)	Human	Plasma	EDTA	0.2 mL	MS/MS 5000	0.1 - 35 ng/mL
Amphetamine Chiral (S) (d-Amphetamine)	Human	Plasma	EDTA	0.2 mL	MS/MS 5000	0.1 - 100 ng/mL
Anastrozole	Human	Plasma	EDTA	0.2 mL	MS/MS 3000	0.2 - 25 ng/mL
Apixaban	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	1 - 500 ng/mL
Apomorphine	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	25 - 25000 pg/mL
Apremilast	Human	Plasma	EDTA	0.05 mL	MS/MS 5000	2 - 800 ng/mL
Aprepitant	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	5 - 6000 ng/mL
Aripiprazole	Human	Plasma	EDTA	0.25 mL	MS/MS 3000	1.5 - 300 ng/mL
Aripiprazole	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	0.5 - 150 ng/mL
Asenapine	Human	Plasma	EDTA	0.2 mL	MS/MS 5000	25 - 7500 pg/mL
Atazanavir	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	10 - 8000 ng/mL
Atenolol	Human	Plasma	EDTA	0.5 mL	LC-MSD	5 - 1000 ng/mL
Atorvastatin	Human	Plasma	EDTA	0.2 mL	MS/MS 5000	0.25 - 60 ng/mL
Atorvastatin	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	50 - 20000 pg/mL
[2-Hydroxyatorvastatin]	Human	Plasma	EDTA	0.2 mL	MS/MS 5000	0.25 - 60 ng/mL

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[4-Hydroxyatorvastatin]	Human	Plasma	EDTA	0.2 mL	MS/MS 5000	30 - 3000 pg/mL
Atovaquone	Human	Plasma	EDTA	0.15 mL	MS/MS 3000	25 - 15000 ng/mL
Atovaquone	Human	Plasma	EDTA	0.15 mL	MS/MS 3000	10 - 3000 ng/mL
Azithromycin	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	5 - 3000 ng/mL
Azithromycin	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	2 - 900 ng/mL
Baclofen	Human	Plasma	EDTA	1 mL	LC-MSD	10 - 1000 ng/mL
Bendroflumethiazide chiral (R)	Human	Plasma	EDTA	0.2 mL	MS/MS 3000	1 - 200 ng/mL
Bendroflumethiazide chiral (S)	Human	Plasma	EDTA	0.2 mL	MS/MS 3000	1 - 200 ng/mL
Betahistine (Pyridylacetic acid)	Human	Plasma	EDTA	0.05 mL	MS/MS 3000	10 - 1000 ng/mL
Bexarotene	Human	Plasma	EDTA	0.2 mL	MS/MS 3000	1 - 200 ng/mL
Bicalutamide	Human	Plasma	EDTA	0.05 mL	MS/MS 3000	5 - 2000 ng/mL
Bisoprolol	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	0.5 - 75 ng/mL
Bisoprolol	Human	Plasma	EDTA	0.05 mL	MS/MS 5000	75 - 30000 pg/mL
Bisoprolol (with Amlodipine)	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	0.5 - 75 ng/mL
Bosentan	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	5 - 3500 ng/mL
Brimonidine	Human	Plasma	EDTA	0.2 mL	MS/MS 5000	10 - 5000 pg/mL
Budesonide	Human	Plasma	EDTA	0.5 mL	MS/MS 5000	10 - 4000 pg/mL
[6beta-Hydroxybudesonide]	Human	Plasma	EDTA	0.5 mL	MS/MS 5000	10 - 2000 pg/mL
Bupivacaine	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	5 - 5000 pg/mL
Bupivacaine	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	1 - 750 ng/mL
[Pipicolylxylidine (PPX)]	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	0.25 - 100 ng/mL
Buprenorphine	Human	Plasma	EDTA	0.5 mL	MS/MS 5000	5 - 2000 pg/mL
Buprenorphine	Human	Plasma	EDTA	0.5 mL	MS/MS 5000	15 - 10000 pg/mL
[Norbuprenorphine]	Human	Plasma	EDTA	0.5 mL	MS/MS 5000	10 - 5000 pg/mL
Bupropion	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	1 - 250 ng/mL
Bupropion	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	2 - 750 ng/mL
[Erythro-Dihydrobupropion]	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	1 - 100 ng/mL
[Hydroxybupropion]	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	5 - 1000 ng/mL
[Hydroxybupropion]	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	5 - 1500 ng/mL
[Threo-dihydrobupropion]	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	2 - 750 ng/mL
Butalbital	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	25 - 2400 ng/mL

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Caffeine	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	25 - 2000 ng/mL
Caffeine	Human	Plasma	EDTA	0.05 mL	MS/MS 5000	25 - 10000 ng/mL
[Paraxanthine]	Human	Plasma	EDTA	0.05 mL	MS/MS 5000	20 - 8000 ng/mL
Canagliflozin	Human	Plasma	EDTA	0.075 mL	MS/MS 3000	10 - 6000 ng/mL
Candesartan	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	1 - 500 ng/mL
Captopril	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	10 - 3000 ng/mL
Carbamazepine	Human	Plasma	EDTA	0.03 mL	MS/MS 3000	50 - 5000 ng/mL
Carvedilol	Human	Plasma	EDTA	1 mL	HPLC-FL	0.25 - 150 ng/mL
[4-Hydroxyphenyl carvedilol]	Human	Plasma	EDTA	1 mL	HPLC-FL	0.1 - 20 ng/mL
Cefixime	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	50 - 10000 ng/mL
Cefpodoxime	Human	Plasma	EDTA	0.05 mL	MS/MS 3000	50 - 5000 ng/mL
Cefprozil (E)	Human	Plasma	EDTA	0.2 mL	MS/MS 3000	0.225 - 22.5 µg/mL
Cefprozil (Z)	Human	Plasma	EDTA	0.2 mL	MS/MS 3000	25 - 2500 ng/mL
Cefuroxime	Human	Plasma	EDTA	0.05 mL	MS/MS 3000	50 - 10000 ng/mL
Celecoxib	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	3 - 2400 ng/mL
Centanafadine	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	5 - 1500 ng/mL
[Centanafadine lactam]	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	5 - 1500 ng/mL
Cetirizine	Human	Plasma	EDTA	0.2 mL	MS/MS 3000	2 - 500 ng/mL
Cetirizine	Rat	Plasma	EDTA	0.025 mL	MS/MS 5500	0.1 - 100 µg/mL
Chlordiazepoxide	Human	Plasma	NaF/Potassium oxalate	0.1 mL	MS/MS 5000	1 - 1000 ng/mL
Chlorhexidine	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	200 - 7500 pg/mL
Chlorpheniramine (with Hydrocodone)	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	0.2 - 40 ng/mL
Chlorpheniramine (with Hydrocodone)	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	0.05 - 30 ng/mL
Cinacalcet	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	0.25 - 100 ng/mL
Ciprofloxacin	Human	Plasma	EDTA	0.05 mL	MS/MS 5000	20 - 8000 ng/mL
Citalopram (S-citalopram)	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	0.5 - 100 ng/mL
Citric acid	Human	Urine	EDTA	0.1 mL	MS/MS 3000	20 - 1000 µg/mL
Clarithromycin	Human	Plasma	EDTA	0.05 mL	MS/MS 3000	20 - 4000 ng/mL
[14-R-OH Clarithromycin]	Human	Plasma	EDTA	0.05 mL	MS/MS 3000	15 - 3000 ng/mL
Clidinium	Human	Plasma	NaF/Potassium oxalate	0.2 mL	MS/MS 5000	2 - 2000 pg/mL

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Compound [Metabolite]	Species	Matrix	Anticoagulant	Sample Volume	Platform	Concentration Range
Clindamycin	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	10 - 5000 ng/mL
Clobazam	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	2.5 - 400 ng/mL
Clobazam	Human	Plasma	EDTA	0.05 mL	MS/MS 5000	2.5 - 1000 ng/mL
[N-Desmethyloclobazam]	Human	Plasma	EDTA	0.05 mL	MS/MS 5000	1 - 200 ng/mL
Clofazimine	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	2 - 640 ng/mL
Clomethiazole	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	1 - 1000 ng/mL
Clonazepam	Human	Plasma	EDTA	1 mL	MS/MS 3000	0.1 - 20 ng/mL
Clonidine	Human	Plasma	EDTA	0.5 mL	MS/MS 5000	3 - 1000 pg/mL
Clopidogrel	Human	Plasma	EDTA	0.2 mL	MS/MS 5000	5 - 6000 pg/mL
Clopidogrel	Human	Plasma	EDTA	0.15 mL	MS/MS 5000	10 - 10000 pg/mL
Clopidogrel acid	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	20 - 7500 ng/mL
Cocaine	Human	Plasma	NaF/Potassium oxalate	0.2 mL	MS/MS 5000	2 - 650 ng/mL
[Benzoylecgonine]	Human	Plasma	NaF/Potassium oxalate	0.2 mL	MS/MS 5000	2 - 650 ng/mL
[Ecgonine Methyl Ester]	Human	Plasma	NaF/Potassium oxalate	0.2 mL	MS/MS 5000	1 - 100 ng/mL
[Ecgonine]	Human	Plasma	NaF/Potassium oxalate	0.2 mL	MS/MS 5000	0.5 - 100 ng/mL
[Norcocaine]	Human	Plasma	NaF/Potassium oxalate	0.2 mL	MS/MS 5000	0.15 - 100 ng/mL
Cocaine	Human	Urine	N/AP	0.1 mL	MS/MS 5000	5 - 2500 ng/mL
[Benzoylecgonine]	Human	Urine	N/AP	0.1 mL	MS/MS 5000	30 - 15000 ng/mL
[Ecgonine Methyl Ester]	Human	Urine	N/AP	0.1 mL	MS/MS 5000	30 - 15000 ng/mL
[Ecgonine]	Human	Urine	N/AP	0.1 mL	MS/MS 5000	10 - 5000 ng/mL
[Norcocaine]	Human	Urine	N/AP	0.1 mL	MS/MS 5000	2 - 1000 ng/mL
Codeine	Human	Plasma	EDTA	0.3 mL	MS/MS 3000	0.5 - 300 ng/mL
[Codeine-6-glucuronide]	Human	Plasma	EDTA	0.3 mL	MS/MS 5000	20 - 5000 ng/mL
[Morphine]	Human	Plasma	EDTA	0.3 mL	MS/MS 5000	0.1 - 20 ng/mL
[Morphine-6-glucuronide]	Human	Plasma	EDTA	0.3 mL	MS/MS 5000	0.25 - 40 ng/mL
Colchicine	Human	Plasma	EDTA	0.05 mL	MS/MS 5000	20 - 18000 pg/mL
Cortisol (hydrocortisone)	Human	Urine	N/AP	0.2 mL	MS/MS 5000	0.5 - 250 ng/mL
[6-beta-Hydroxycortisol]	Human	Urine	N/AP	0.2 mL	MS/MS 5000	2 - 1600 ng/mL
Creatinine	Human	Urine	N/AP	0.1 mL	LBA-Spectrophotometri c-Biotek	0.2 - 20 mg/dL

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Cyclophosphamide	Human	Plasma	EDTA	0.05 mL	MS/MS 5000	0.1 - 30 µg/mL
[4-Ketocyclophosphamide]	Human	Plasma	EDTA	0.05 mL	MS/MS 5000	10 - 1000 ng/mL
Cyclosporin	Human	Blood	EDTA	0.2 mL	MS/MS 3000	1 - 1000 ng/mL
Cyproterone acetate	Human	Plasma (female)	EDTA	0.3 mL	MS/MS 5000	0.1 - 50 ng/mL
Dabigatran (free)	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	1 - 300 ng/mL
Dabigatran (total)	Human	Plasma	EDTA	0.2 mL	MS/MS 5000	1 - 300 ng/mL
Dapsone	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	25 - 4000 ng/mL
Darunavir	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	50 - 20000 ng/mL
Dasatinib	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	0.2 - 250 ng/mL
Decitabine	Human	Plasma	EDTA	0.2 mL	MS/MS 3000	1 - 500 ng/mL
Deferasirox (total)	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	0.1 - 100 µg/mL
Desfesoterodine (5-Hydroxymethyltolterodine)	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	50 - 15000 pg/mL
[SPM-5509 (5-Carboxytolterodine)]	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	0.2 - 30 ng/mL
(R)-Desfesoterodine ((R)-5-Hydroxymethyltolterodine)	Human	Plasma	EDTA	0.2 mL	MS/MS 5000	25 - 7500 pg/mL
(S)-Desfesoterodine ((S)-5-Hydroxymethyltolterodine)	Human	Plasma	EDTA	0.2 mL	MS/MS 5000	25 - 7500 pg/mL
Desloratadine	Human	Plasma	EDTA	0.3 mL	MS/MS 5000	25 - 4500 pg/mL
[3-Hydroxydesloratadine]	Human	Plasma	EDTA	0.3 mL	MS/MS 5000	25 - 2000 pg/mL
Desoximetasone	Human	Plasma	EDTA	0.25 mL	MS/MS 5000	25 - 2500 pg/mL
Desvenlafaxine	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	1 - 800 ng/mL
Dexamethasone	Human	Plasma	EDTA	0.2 mL	MS/MS 3000	0.5 - 150 ng/mL
Dexamethasone	Human	Plasma	EDTA	0.2 mL	MS/MS 3000	1 - 500 ng/mL
Diacerin (Rhein)	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	50 - 6000 ng/mL
Diazepam	Human	Plasma	EDTA	0.05 mL	MS/MS 5000	1.5 - 1500 ng/mL
[Nordiazepam]	Human	Plasma	EDTA	0.05 mL	MS/MS 5000	0.2 - 200 ng/mL
Diclofenac	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	5 - 4000 ng/mL
Diclofenac	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	50 - 10000 pg/mL
Diclofenac	Human	Ringer Microdialysate	N/AP	0.025 mL	MS/MS 5000	50 - 10000 pg/mL
Diltiazem	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	2.5 - 400 ng/mL
[Desacetyldiltiazem]	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	0.5 - 100 ng/mL



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[N-Desmethyldiltiazem]	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	0.5 - 100 ng/mL
Diphenhydramine	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	0.5 - 120 ng/mL
Dipyridamole	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	5 - 4000 ng/mL
Dofetilide	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	25 - 5000 pg/mL
Domperidone	Human	Plasma	EDTA	1 mL	MS/MS 3000	0.1 - 50 ng/mL
Donepezil	Human	Plasma	EDTA	0.2 mL	MS/MS 3000	0.25 - 50 ng/mL
[6-O-Desmethyldonepezil]	Human	Plasma	EDTA	0.2 mL	MS/MS 3000	50 - 10000 pg/mL
Doxazosin	Human	Plasma	EDTA	0.5 mL	HPLC-FL	0.5 - 100 ng/mL
Doxycycline	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	10 - 3000 ng/mL
Doxylamine	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	1 - 200 ng/mL
Dronedarone	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	0.25 - 200 ng/mL
Drospirenone (with Ethinyl Estradiol)	Human	Plasma (Female)	EDTA	0.6 mL	MS/MS 5000	0.2 - 100 ng/mL
Duloxetine	Human	Plasma	EDTA	0.25 mL	MS/MS 3000	0.5 - 100 ng/mL
Dutasteride	Human	Plasma	EDTA	0.25 mL	MS/MS 5000	25 - 4000 pg/mL
Ebastine	Human	Plasma	EDTA	0.25 mL	MS/MS 3000	50 - 20000 pg/mL
[Carebastine]	Human	Plasma	EDTA	0.25 mL	MS/MS 3000	1 - 400 ng/mL
Efavirenz (with Emtricitabine and Tenofovir)	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	25 - 6000 ng/mL
Eflornithine	Human	Plasma	Heparin	0.05 mL	MS/MS 5000	35 - 35000 ng/mL
Eletriptan	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	0.5 - 400 ng/mL
Emtricitabine (with Efavirenz and Tenofovir)	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	10 - 4000 ng/mL
Emtricitabine (with Tenofovir)	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	10 - 4000 ng/mL
Enalapril	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	0.25 - 300 ng/mL
[Enalaprilat]	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	0.25 - 300 ng/mL
Entacapone	Human	Plasma	EDTA	0.2 mL	MS/MS 3000	10 - 2500 ng/mL
Entecavir	Human	Plasma	EDTA	0.2 mL	MS/MS 5000	50 - 20000 pg/mL
Eplerenone	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	5 - 2000 ng/mL
Erlotinib	Human	Plasma	EDTA	0.05 mL	MS/MS 3000	10 - 3000 ng/mL
Eslicarbazepine	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	50 - 25000 ng/mL
Estradiol Unconjugated	Human	Plasma (Female Post-menopausal)	EDTA	0.5 mL	MS/MS 5000	1 - 200 pg/mL

## Method Status: Validated - Small Molecule

Compound [Metabolite]	Species	Matrix	Anticoagulant	Sample Volume	Platform	Concentration Range
[Estrone Unconjugated]	Human	Plasma (Female Post-menopausal)	EDTA	0.5 mL	MS/MS 5000	5 - 1000 pg/mL
Estrone Glucuronide	Human	Plasma (Female Post-menopausal)	EDTA	0.1 mL	MS/MS 5000	0.1 - 100 ng/mL
Estrone Sulfate	Human	Plasma (Female Post-menopausal)	EDTA	0.1 mL	MS/MS 5000	0.1 - 100 ng/mL
Ethinyl Estradiol	Human	Plasma (Female)	EDTA	0.5 mL	MS/MS 5000	1 - 250 pg/mL
Ethinyl Estradiol (with Drospirenone)	Human	Plasma (Female)	EDTA	0.6 mL	MS/MS 5000	1 - 500 pg/mL
Etifoxine	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	2 - 250 ng/mL
Etodolac	Human	Plasma	EDTA	0.1 mL	LC-MSD	0.1 - 40 µg/mL
Etoricoxib	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	20 - 4000 ng/mL
Everolimus	Human	Blood	EDTA	0.2 mL	MS/MS 5000	0.1 - 75 ng/mL
Everolimus	Human	Blood	EDTA	0.2 mL	MS/MS 5000	0.5 - 250 ng/mL
Exemestane	Human	Plasma	EDTA	0.7 mL	MS/MS 5000	50 - 50000 pg/mL
Ezetimibe unconjugated	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	50 - 15000 pg/mL
[Ezetimibe conjugated]	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	1 - 200 ng/mL
Fampridine (Dalfampridine)	Human	Plasma	EDTA	0.05 mL	MS/MS 5000	0.2 - 60 ng/mL
Febuxostat	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	20 - 10000 ng/mL
Felodipine	Human	Plasma	EDTA	0.5 mL	MS/MS 3000	20 - 20000 pg/mL
Felodipine	Human	Plasma	Heparin	1 mL	MS/MS 3000	0.1 - 15 ng/mL
Fenofibric acid	Human	Plasma	EDTA	0.05 mL	MS/MS 3000	40 - 15000 ng/mL
Fenretinide	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	40 - 4000 ng/mL
[4-Methoxyfenretinide]	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	40 - 4000 ng/mL
Fentanyl	Human	Plasma	EDTA	0.5 mL	MS/MS 3000	50 - 20000 pg/mL
Fentanyl	Human	Plasma	EDTA	0.3 mL	MS/MS 3000	10 - 6000 pg/mL
Ferumoxytol (Total Serum Iron)	Human	Serum	N/AP	0.1 mL	LBA-Spectrophotometric-Biotek	50 - 2500 µg/dL
Ferumoxytol (Transferrin-Bound Iron)	Human	Serum	N/AP	0.2 mL	LBA-Spectrophotometric-Biotek	50 - 800 µg/dL
Fesoterodine	Human	Plasma	EDTA	0.5 mL	MS/MS 5000	1 - 2000 pg/mL
Fexofenadine	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	0.5 - 500 ng/mL

## Method Status: Validated - Small Molecule

Compound [Metabolite]	Species	Matrix	Anticoagulant	Sample Volume	Platform	Concentration Range
Finasteride	Human	Plasma	EDTA	1 mL	MS/MS 3000	0.1 - 75 ng/mL
Fingolimod	Human	Blood	EDTA	0.6 mL	MS/MS 5000	20 - 2000 pg/mL
[Fingolimod phosphate]	Human	Blood	EDTA	0.6 mL	MS/MS 5000	100 - 3000 pg/mL
Fluconazole	Human	Plasma	EDTA	1 mL	LC-MSD	50 - 4000 ng/mL
Fludrocortisone	Human	Plasma	EDTA	0.5 mL	MS/MS 5000	25 - 2000 pg/mL
Fluindione	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	0.1 - 6 µg/mL
Flunitrazepam	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	0.2 - 30 ng/mL
Fluoxetine	Human	Plasma	EDTA	1 mL	LC-MSD	0.5 - 100 ng/mL
[Norfluoxetine]	Human	Plasma	EDTA	1 mL	LC-MSD	0.5 - 100 ng/mL
Fluvastatin	Human	Plasma	EDTA	0.5 mL	MS/MS 3000	0.5 - 800 ng/mL
[3R]5S Fluvastatin]	Human	Plasma	EDTA	1 mL	MS/MS 3000	0.5 - 500 ng/mL
[3S]5R Fluvastatin]	Human	Plasma	EDTA	1 mL	MS/MS 3000	0.5 - 500 ng/mL
Fluvoxamine (trans)	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	0.5 - 100 ng/mL
Frovatriptan	Human	Blood	EDTA	0.1 mL	MS/MS 5000	25 - 15000 pg/mL
Furosemide	Human	Plasma	EDTA	0.05 mL	MS/MS 5000	5 - 5000 ng/mL
Gabapentin	Human	Plasma	EDTA	0.05 mL	LC-MSD	0.1 - 10 mcg/mL
Galantamine	Human	Plasma	EDTA	0.2 mL	MS/MS 3000	0.5 - 75 ng/mL
Gamma hydroxybutyric acid	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	0.2 - 150 µg/mL
Gefitinib	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	1 - 400 ng/mL
Gestodene	Human	Plasma	EDTA	0.05 mL	MS/MS 5000	50 - 6000 pg/mL
Glimepiride	Human	Plasma	EDTA	0.05 mL	MS/MS 5000	1 - 500 ng/mL
Glipizide	Human	Plasma	EDTA	1 mL	LC-MSD	2 - 800 ng/mL
Glutathione (total)	Human	Plasma	EDTA	0.16 mL	LBA-Colorimetric-Biotek	1.003 - 13.00 µM
Glyburide (Glibenclamide)	Human	Plasma	EDTA	1 mL	MS/MS 3000	2.5 - 400 ng/mL
Granisetron	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	50 - 20000 pg/mL
Haloperidol	Human	Plasma	EDTA	0.15 mL	MS/MS 5000	10 - 2000 pg/mL
Hydrochlorothiazide	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	1 - 300 ng/mL
Hydrochlorothiazide (with Telmisartan)	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	1 - 300 ng/mL
Hydrocodone	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	0.2 - 200 ng/mL
Hydrocodone (with Chlorpheniramine)	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	0.2 - 40 ng/mL

### Method Status: Validated - Small Molecule

Compound [Metabolite]	Species	Matrix	Anticoagulant	Sample Volume	Platform	Concentration Range
Hydrocodone (with chlorpheniramine)	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	0.05 - 30 ng/mL
Hydromorphone	Human	Plasma	Heparin	0.5 mL	MS/MS 3000	30 - 5000 pg/mL
Hydroxychloroquine	Human	Blood	Heparin	1 mL	HPLC-FL	1 - 400 ng/mL
Hydroxyzine	Human	Plasma	EDTA	0.05 mL	MS/MS 5000	0.5 - 150 ng/mL
Ibandronate	Human	Plasma	Heparin	0.15 mL	MS/MS 3000	0.25 - 250 ng/mL
Ibandronate	Human	Plasma	Heparin	0.1 mL	MS/MS 3000	1 - 300 ng/mL
Ibrutinib	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	0.2 - 150 ng/mL
Ibrutinib	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	50 - 50000 pg/mL
Ibuprofen (R)	Human	Plasma	EDTA	0.05 mL	MS/MS 3000	0.1 - 25 µg/mL
Ibuprofen (S)	Human	Plasma	EDTA	0.05 mL	MS/MS 3000	0.1 - 25 µg/mL
Ibuprofen (achiral)	Human	Plasma	Heparin	0.1 mL	MS/MS 3000	0.1 - 25 µg/mL
Ibuprofen (achiral)	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	0.2 - 80 µg/mL
Ibuprofen (achiral)	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	50 - 50000 ng/mL
R-Ibuprofen	Human	Plasma	EDTA	0.05 mL	MS/MS 3000	0.1 - 50 µg/mL
S-Ibuprofen	Human	Plasma	EDTA	0.05 mL	MS/MS 3000	0.1 - 50 µg/mL
Idarubicin	Human	Plasma	EDTA	0.2 mL	MS/MS 5000	2 - 1500 ng/mL
[Idarubicinol]	Human	Plasma	EDTA	0.2 mL	MS/MS 5000	0.15 - 30 ng/mL
Idelalisib	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	15 - 6500 ng/mL
Imatinib	Human	Plasma	EDTA	0.2 mL	MS/MS 3000	10 - 4000 ng/mL
[N-Desmethyl Imatinib]	Human	Plasma	EDTA	0.2 mL	MS/MS 3000	5 - 400 ng/mL
Indapamide (blood)	Human	Blood	EDTA	0.1 mL	MS/MS 3000	0.5 - 300 ng/mL
Indomethacin	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	25 - 5000 ng/mL
Irbesartan	Human	Plasma	EDTA	0.05 mL	MS/MS 3000	50 - 8000 ng/mL
Irbesartan	Human	Plasma	EDTA	0.05 mL	MS/MS 3000	20 - 8000 ng/mL
Iron (Total Serum Iron from Ferric Carboxymaltose)	Human	Serum	N/AP	0.1 mL	LBA-Spectrophotometri c-Biotek	60.2 - 2500 µg/dL
Iron (Transferrin-Bound Iron from Ferric Carboxymaltose)	Human	Serum	N/AP	0.1 mL	LBA-Spectrophotometri c-Biotek	50 - 800 µg/dL
Iron Sucrose (Total Serum Iron)	Human	Serum	N/AP	0.1 mL	LBA-Spectrophotometri c-Biotek	50 - 2500 µg/dL
Iron Sucrose (Transferrin-Bound Iron)	Human	Serum	N/AP	0.1 mL	LBA-Spectrophotometri c-Biotek	50 - 800 µg/dL

### Method Status: Validated - Small Molecule

Compound [Metabolite]	Species	Matrix	Anticoagulant	Sample Volume	Platform	Concentration Range
Isosorbide-5-mononitrate	Human	Plasma	EDTA	0.2 mL	MS/MS 3000	10 - 1500 ng/mL
Itraconazole	Human	Plasma	EDTA	0.05 mL	MS/MS 5000	10 - 4000 ng/mL
Itraconazole	Human	Plasma	EDTA	0.07 mL	MS/MS 5000	1 - 600 ng/mL
[Hydroxyitraconazole]	Human	Plasma	EDTA	0.07 mL	MS/MS 5000	1 - 1000 ng/mL
Ivermectin B1a	Human	Plasma	EDTA	0.2 mL	MS/MS 5000	0.25 - 75 ng/mL
Ivermectin B1b	Human	Plasma	EDTA	0.2 mL	MS/MS 5000	25 - 7500 pg/mL
Ketoprofen	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	50 - 20000 ng/mL
Lacidipine	Human	Plasma	EDTA	0.5 mL	MS/MS 3000	20 - 12000 pg/mL
Lacosamide	Human	Plasma	EDTA	0.05 mL	MS/MS 5000	50 - 10000 ng/mL
Lamivudine (with Abacavir)	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	10 - 5000 ng/mL
Lamotrigine	Human	Plasma	EDTA	0.2 mL	MS/MS 3000	5 - 1500 ng/mL
Lamotrigine	Human	Plasma	EDTA	0.05 mL	LC-MSD	0.6 - 12 µg/mL
Lamotrigine	Human	Plasma	EDTA	0.2 mL	MS/MS 3000	10 - 10000 ng/mL
Lansoprazole	Human	Plasma	EDTA	0.05 mL	MS/MS 3000	2.5 - 2000 ng/mL
Lansoprazole	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	1.0 - 1000 ng/mL
Lercanidipine (R-)	Human	Plasma	EDTA	1 mL	MS/MS 3000	25 - 5000 pg/mL
Lercanidipine (S-)	Human	Plasma	EDTA	1 mL	MS/MS 3000	25 - 5000 pg/mL
Letrozole	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	0.5 - 60 ng/mL
Levetiracetam	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	0.25 - 65 µg/mL
Levocarnitine	Human	Plasma	EDTA	0.1 mL	LC-MSD	0.4 - 30 µg/mL
Levodopa	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	25 - 5000 ng/mL
[3-O-Methyldopa]	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	25 - 5000 ng/mL
Levofloxacin	Human	Plasma	EDTA	0.05 mL	MS/MS 3000	0.1 - 10 µg/mL
Levonorgestrel	Human	Plasma (Female)	EDTA	0.5 mL	MS/MS 5000	50 - 15000 pg/mL
Levonorgestrel	Human	Plasma (Female)	EDTA	0.5 mL	MS/MS 3000	200 - 40000 pg/mL
Levothyroxine	Human	Serum	N/AP	0.1 mL	MS/MS 5000	10 - 300 ng/mL
Linagliptin	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	25 - 10000 pg/mL
Linezolid (S-)	Human	Plasma	EDTA	0.05 mL	MS/MS 3000	0.1 - 25 µg/mL
Lonafarnib	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	2 - 1000 ng/mL
Loratadine	Human	Plasma	EDTA	0.3 mL	MS/MS 5000	50 - 10000 pg/mL
[Desloratadine]	Human	Plasma	EDTA	0.3 mL	MS/MS 5000	50 - 10000 pg/mL

### Method Status: Validated - Small Molecule

Compound [Metabolite]	Species	Matrix	Anticoagulant	Sample Volume	Platform	Concentration Range
Lorazepam	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	0.1 - 40 ng/mL
Losartan	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	2.5 - 1500 ng/mL
[Losartan Carboxy Acid]	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	2.5 - 1500 ng/mL
Macitentan	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	1 - 500 ng/mL
Magnesium	Human	Serum	N/AP	0.015 mL	LBA-colorimetric-Biotek	0.6 - 5 mg/dL
Meclizine	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	0.5 - 200 ng/mL
Mefenamic Acid	Human	Plasma	EDTA	0.05 mL	MS/MS 3000	25 - 5000 ng/mL
Meloxicam	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	10 - 4000 ng/mL
Memantine	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	0.1 - 50 ng/mL
Mesalamine	Human	Plasma	EDTA	0.2 mL	MS/MS 3000	2.6 - 1500 ng/mL
Mesalamine	Human	Plasma	EDTA	0.2 mL	MS/MS 3000	10 - 4000 ng/mL
Mesalamine	Human	Urine	N/AP	0.1 mL	MS/MS 3000	0.1 - 500 µg/mL
Mesalamine	Human	Plasma	EDTA	0.2 mL	MS/MS 3000	1 - 1500 ng/mL
[N-Acetyl Mesalamine]	Human	Plasma	EDTA	0.2 mL	MS/MS 3000	5 - 2500 ng/mL
[N-Acetyl Mesalamine]	Human	Urine	N/AP	0.1 mL	MS/MS 3000	0.1 - 500 µg/mL
[N-Acetyl Mesalamine]	Human	Plasma	EDTA	0.2 mL	MS/MS 3000	25 - 6000 ng/mL
Metaxalone	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	20 - 6000 ng/mL
Metformin	Human	Plasma	EDTA	0.05 mL	MS/MS 5000	5 - 4000 ng/mL
Methadone	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	1 - 100 ng/mL
Methenamine	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	0.2 - 40 µg/mL
Methocarbamole	Human	Plasma	EDTA	0.05 mL	MS/MS 3000	150 - 20000 ng/mL
Methylphenidate	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	50 - 25000 pg/mL
Metoprolol	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	1 - 400 ng/mL
Metoprolol	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	0.25 - 250 ng/mL
Metoprolol	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	0.1 - 100 ng/mL
Metronidazole	Human	Plasma	EDTA	0.2 mL	MS/MS 5000	75 - 75000 pg/mL
Mexiletine	Human	Plasma	EDTA	0.05 mL	MS/MS 5000	5 - 1000 ng/mL
Midazolam	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	0.1 - 100 ng/mL
[1-Hydroxymidazolam]	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	50 - 15000 pg/mL
Midodrine	Human	Plasma	EDTA	0.2 mL	MS/MS 5000	0.1 - 75 ng/mL
Miglitol	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	20 - 3500 ng/mL

### Method Status: Validated - Small Molecule

Compound [Metabolite]	Species	Matrix	Anticoagulant	Sample Volume	Platform	Concentration Range
Miglustat	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	10 - 3000 ng/mL
Minocycline	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	10 - 6000 ng/mL
Minocycline (heparin)	Human	Plasma	Heparin	0.1 mL	MS/MS 3000	10 - 4000 ng/mL
Mirtazapine	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	0.2 - 120 ng/mL
Modafinil	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	50 - 10000 ng/mL
Mono-methyl fumarate (dimethylfumarate)	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	10 - 4000 ng/mL
Montelukast	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	2.5 - 750 ng/mL
Morphine	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	0.5 - 200 ng/mL
Morphine (EDTA)	Human	Plasma	EDTA	0.3 mL	MS/MS 5000	50 - 50000 pg/mL
Morphine (heparin)	Human	Plasma	Heparin	0.3 mL	MS/MS 5000	50 - 50000 pg/mL
Morphine-6-Glucuronide	Human	Plasma	Heparin	0.1 mL	MS/MS 3000	2.5 - 350 ng/mL
Moxifloxacin	Human	Plasma	EDTA	0.2 mL	MS/MS 3000	10 - 4000 ng/mL
Mycophenolic Acid	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	25 - 10000 ng/mL
Naftifine	Human	Plasma	EDTA	0.15 mL	MS/MS 5000	10 - 10000 pg/mL
Nalbuphine	Human	Plasma	EDTA	0.5 mL	MS/MS 3000	0.1 - 100 ng/mL
Naloxone (free)	Human	Plasma	EDTA	0.6 mL	MS/MS 5000	2 - 500 pg/mL
Naloxone 3-glucuronide	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	0.5 - 200 ng/mL
Naloxone 3-glucuronide	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	0.1 - 90 ng/mL
Naltrexone	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	0.1 - 20 ng/mL
Naltrexone	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	0.1 - 50 ng/mL
[6beta-Naltrexol]	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	1 - 200 ng/mL
Naproxen	Human	Plasma	Heparin	0.1 mL	MS/MS 3000	0.5 - 200 µg/mL
Naproxen	Human	Plasma	EDTA	0.05 mL	MS/MS 3000	0.5 - 100 µg/mL
Nateglinide	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	50 - 25000 ng/mL
Nefazodone	Human	Plasma	EDTA	0.25 mL	LC-MSD	5 - 1000 ng/mL
Nefopam	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	0.25 - 125 ng/mL
Nevirapine	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	50 - 4000 ng/mL
Nicardipine	Human	Plasma	EDTA	0.8 mL	LC-MSD	0.5 - 100 ng/mL
Nicotine	Human	Plasma	EDTA	0.150 mL	MS/MS 5000	0.2 - 100 ng/mL
Nicotine	Human	Plasma	EDTA	0.15 mL	MS/MS 5000	0.15 - 15 ng/mL
Nicotine (nicotine equivalents)	Human	Urine	N/AP	0.05 mL	MS/MS 5000	10 - 10000 ng/mL

### Method Status: Validated - Small Molecule

Compound [Metabolite]	Species	Matrix	Anticoagulant	Sample Volume	Platform	Concentration Range
[Cotinine]	Human	Urine	N/AP	0.05 mL	MS/MS 5000	10 - 5000 ng/mL
[Cotinine-N-glucuronide]	Human	Urine	N/AP	0.05 mL	MS/MS 5000	20 - 10000 ng/mL
[Nicotine-N-glucuronide]	Human	Urine	N/AP	0.05 mL	MS/MS 5000	10 - 5000 ng/mL
[trans-3'-Hydroxycotinine]	Human	Urine	N/AP	0.05 mL	MS/MS 5000	10 - 10000 ng/mL
[trans-3'-Hydroxycotinine-O-glucuronide]	Human	Urine	N/AP	0.05 mL	MS/MS 5000	50 - 15000 ng/mL
Nifedipine	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	0.5 - 400 ng/mL
Nimesulide	Human	Plasma	EDTA	0.075 mL	MS/MS 3000	10 - 6000 ng/mL
Nintedanib	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	0.1 - 50 ng/mL
Nitisinone	Human	Plasma	EDTA	0.05 mL	MS/MS 5000	3 - 3000 ng/mL
Norethindrone	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	50 - 40000 pg/mL
Norethindrone	Human	Plasma (Female Post-menopausal)	EDTA	0.1 mL	MS/MS 5000	50 - 20000 pg/mL
Norfloracin	Human	Plasma	Heparin	1 mL	HPLC-FL	25 - 2000 ng/mL
Norgestimate	Human	Plasma (Female)	EDTA	0.7 mL	MS/MS 5000	5 - 200 pg/mL
[Norelgestromin]	Human	Plasma (Female)	EDTA	0.7 mL	MS/MS 5000	40 - 6000 pg/mL
Ofloxacin	Human	Plasma	EDTA	0.1 mL	HPLC-FL	50 - 5000 ng/mL
Olanzapine	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	0.1 - 25 ng/mL
Olmesartan	Human	Plasma	EDTA	0.05 mL	MS/MS 3000	10 - 2000 ng/mL
Omega-3 ethyl esters (DHA ethyl ester)	Human	Plasma	NaF/Potassium oxalate	0.3 mL	MS/MS 5000	0.5 - 200 ng/mL
Omega-3 ethyl esters (EPA ethyl ester)	Human	Plasma	NaF/Potassium oxalate	0.3 mL	MS/MS 5000	0.5 - 200 ng/mL
Omega-3 free (unconjugated DHA)	Human	Plasma	NaF/Potassium oxalate	0.1 mL	MS/MS 5000	40 - 2500 ng/mL
Omega-3 free (unconjugated EPA)	Human	Plasma	NaF/Potassium oxalate	0.1 mL	MS/MS 5000	10 - 1000 ng/mL
Omega-3 total (total DHA)	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	10 - 200 µg/mL
Omega-3 total (total EPA)	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	2 - 200 µg/mL
Omega-3 total (total DHA) Mouse	Mouse	Plasma	EDTA	0.025 mL	MS/MS 5000	2 - 400 µg/mL
Omega-3 total (total EPA) Mouse	Mouse	Plasma	EDTA	0.025 mL	MS/MS 5000	2 - 400 µg/mL
Omega-3 total (total DHA) Dog	Dog	Plasma	EDTA	0.1 mL	MS/MS 5000	2 - 400 µg/mL
Omega-3 total (total EPA) Dog	Dog	Plasma	EDTA	0.1 mL	MS/MS 5000	2 - 400 µg/mL



### Method Status: Validated - Small Molecule

Compound [Metabolite]	Species	Matrix	Anticoagulant	Sample Volume	Platform	Concentration Range
Omega-3 total (total DHA) Rabbit	Rabbit	Plasma	EDTA	0.025 mL	MS/MS 5000	2 - 400 µg/mL
Omega-3 total (total EPA) Rabbit	Rabbit	Plasma	EDTA	0.025 mL	MS/MS 5000	2 - 400 µg/mL
Omega-3 total (total DHA) Rat	Rat	Plasma	EDTA	0.025 mL	MS/MS 5000	2 - 400 µg/mL
Omega-3 total (total EPA) Rat	Rat	Plasma	EDTA	0.025 mL	MS/MS 5000	2 - 400 µg/mL
Omeprazole	Human	Plasma	Heparin	0.1 mL	MS/MS 3000	10 - 1000 ng/mL
Omeprazole	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	5 - 2500 ng/mL
Omeprazole	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	2 - 1500 ng/mL
Ondansetron	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	0.5 - 300 ng/mL
Oseltamivir	Human	Plasma	NaF/Potassium oxalate	0.1 mL	MS/MS 5000	0.5 - 200 ng/mL
[Oseltamivir carboxylate]	Human	Plasma	NaF/Potassium oxalate	0.1 mL	MS/MS 5000	2.5 - 1000 ng/mL
Otilonium	Human	Plasma	NaF/Potassium oxalate	0.1 mL	MS/MS 5000	25 - 10000 pg/mL
Oxcarbazepine	Human	Plasma	EDTA	0.05 mL	MS/MS 5000	5 - 4000 ng/mL
[2H,OH Carbamazepine]	Human	Plasma	EDTA	0.05 mL	MS/MS 5000	0.1 - 18 µg/mL
Oxybutynin	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	0.05 - 15 ng/mL
Oxybutynin	Human	Plasma	EDTA	1 mL	LC-MSD	0.1 - 50 ng/mL
[N-Desethyloxybutynin]	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	0.25 - 50 ng/mL
Oxycodone	Human	Plasma	EDTA	0.25 mL	MS/MS 5000	0.2 - 100 ng/mL
Oxycodone	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	0.5 - 150 ng/mL
Oxycodone	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	0.1 - 50 ng/mL
Oxycodone	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	0.2 - 100 ng/mL
[Noroxycodone]	Human	Plasma	EDTA	0.25 mL	MS/MS 5000	0.2 - 100 ng/mL
[Oxymorphone]	Human	Plasma	EDTA	0.25 mL	MS/MS 5000	0.1 - 5 ng/mL
Oxymorphone	Human	Plasma	EDTA	0.3 mL	MS/MS 5000	25 - 10000 pg/mL
[6-Hydroxyoxymorphone]	Human	Plasma	EDTA	0.3 mL	MS/MS 5000	40 - 4000 pg/mL
Paliperidone	Human	Plasma	EDTA	0.15 mL	MS/MS 3000	50 - 25000 pg/mL
Pantoprazole	Human	Plasma	EDTA	0.05 mL	MS/MS 3000	20 - 5000 ng/mL
Paroxetine	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	0.1 - 50 ng/mL
Paroxetine	Human	Plasma	EDTA	0.2 mL	MS/MS 5000	25 - 25000 pg/mL
Pentamidine	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	2.5 - 2500 ng/mL
Perindopril	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	0.5 - 300 ng/mL

### Method Status: Validated - Small Molecule

Compound [Metabolite]	Species	Matrix	Anticoagulant	Sample Volume	Platform	Concentration Range
[Perindoprilat]	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	0.1 - 30 ng/mL
Phenobarbital	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	25 - 6000 ng/mL
Phenprocoumon (R-)	Human	Plasma	EDTA	0.2 mL	MS/MS 3000	5 - 1000 ng/mL
Phenprocoumon (S-)	Human	Plasma	EDTA	0.2 mL	MS/MS 3000	5 - 1000 ng/mL
Phentermine	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	1 - 250 ng/mL
Phenytoin	Human	Plasma	EDTA	0.25 mL	LC-MSD	50 - 10000 ng/mL
Phloroglucinol	Human	Plasma	EDTA	0.3 mL	MS/MS 5000	2 - 1200 ng/mL
Pioglitazone	Human	Plasma	EDTA	0.05 mL	MS/MS 3000	10 - 2500 ng/mL
[Hydroxy Pioglitazone]	Human	Plasma	EDTA	0.05 mL	MS/MS 3000	5 - 1500 ng/mL
[Pioglitazone Ketone]	Human	Plasma	EDTA	0.05 mL	MS/MS 3000	5 - 1500 ng/mL
Pirfenidone	Human	Plasma	EDTA	0.05 mL	MS/MS 5000	0.1 - 40 µg/mL
Pitavastatin	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	0.5 - 200 ng/mL
Pomalidomide	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	0.5 - 150 ng/mL
Posaconazole	Human	Plasma	EDTA	0.15 mL	MS/MS 3000	2 - 2000 ng/mL
Posaconazole	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	50 - 8000 ng/mL
Pramipexole	Human	Plasma	EDTA	0.5 mL	MS/MS 5000	10 - 2000 pg/mL
Pramoxine	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	5 - 2500 pg/mL
Prasugrel (R-95913)	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	0.25 - 200 ng/mL
Pravastatin	Human	Plasma	EDTA	0.25 mL	MS/MS 3000	0.5 - 300 ng/mL
Prednisolone	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	2 - 500 ng/mL
Prednisone	Human	Plasma	EDTA	0.05 mL	MS/MS 5000	2 - 200 ng/mL
[Prednisolone]	Human	Plasma	EDTA	0.05 mL	MS/MS 5000	5 - 1500 ng/mL
Pregabalin	Human	Plasma	EDTA	0.3 mL	MS/MS 3000	15 - 15000 ng/mL
Progesterone	Human	Plasma (Female Post- menopausal)	EDTA	0.1 mL	MS/MS 5000	25 - 40000 pg/mL
Proguanil	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	1 - 200 ng/mL
[Cycloguanil]	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	1 - 100 ng/mL
Promethazine	Human	Plasma	EDTA	1 mL	LC-MSD	0.1 - 40 ng/mL
Propafenone	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	0.5 - 300 ng/mL
[5-Hydroxypropafenone]	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	0.5 - 250 ng/mL
Propafenone	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	0.1 - 100 ng/mL

### Method Status: Validated - Small Molecule

Compound [Metabolite]	Species	Matrix	Anticoagulant	Sample Volume	Platform	Concentration Range
[5-Hydroxypropafenone]	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	0.1 - 100 ng/mL
Propoxyphene	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	1 - 200 ng/mL
Propranolol (R-)	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	0.1 - 50 ng/mL
Propranolol (S-)	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	0.1 - 50 ng/mL
Propranolol (total)	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	2 - 500 ng/mL
[4-Hydroxypropranolol (total)]	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	2 - 500 ng/mL
Prucalopride	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	50 - 15000 pg/mL
Pseudoephedrine	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	2 - 600 ng/mL
Pyridostigmine	Human	Plasma	NaF/Potassium oxalate	0.1 mL	MS/MS 3000	0.5 - 250 ng/mL
Quetiapine	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	1 - 150 ng/mL
Quetiapine	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	2.5 - 2000 ng/mL
Quinapril	Human	Plasma	EDTA	0.5 mL	MS/MS 3000	2 - 1000 ng/mL
[Quinaprilat]	Human	Plasma	EDTA	0.5 mL	MS/MS 3000	5 - 1600 ng/mL
Quinidine	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	10 - 2000 ng/mL
Rabeprazole	Human	Plasma	EDTA	0.05 mL	MS/MS 3000	5 - 3000 ng/mL
Racecadotril (Thiorphan)	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	2.5 - 500 ng/mL
Racecadotril (Thiorphan)	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	5 - 600 ng/mL
Raloxifene	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	10 - 1000 pg/mL
Ramipril	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	0.1 - 50 ng/mL
Ramipril	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	50 - 50000 pg/mL
[Ramiprilat]	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	0.3 - 75 ng/mL
Ranitidine	Human	Plasma	EDTA	1 mL	HPLC-UV	10 - 2500 ng/mL
Rasagiline	Human	Plasma	EDTA	0.3 mL	MS/MS 5000	5 - 10000 pg/mL
Repaglinide	Human	Plasma	EDTA	0.05 mL	MS/MS 3000	0.5 - 100 ng/mL
Ribavirin	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	5 - 2000 ng/mL
Rifabutin	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	2 - 800 ng/mL
[25-O-Desacetylriofabutin]	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	0.2 - 100 ng/mL
Riluzole	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	0.5 - 500 ng/mL
Risedronate	Human	Plasma	EDTA	0.6 mL	MS/MS 3000	0.15 - 200 ng/mL
Risedronate	Human	Plasma	EDTA	0.6 mL	MS/MS 5000	50 - 60000 pg/mL
Risedronate	Human	Plasma	EDTA	0.6 mL	MS/MS 5000	20 - 20000 pg/mL

### Method Status: Validated - Small Molecule

Compound [Metabolite]	Species	Matrix	Anticoagulant	Sample Volume	Platform	Concentration Range
Risedronate	Human	Plasma	EDTA	0.6 mL	MS/MS 3000	0.2 - 30 ng/mL
Risperidone	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	0.1 - 50 ng/mL
[9-OH-Risperidone (paliperidone)]	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	0.1 - 50 ng/mL
Rivaroxaban	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	1 - 600 ng/mL
Rivastigmine	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	0.1 - 40 ng/mL
Rivastigmine	Human	Plasma	EDTA	0.5 mL	MS/MS 3000	10 - 10000 pg/mL
Rivastigmine	Human	Plasma	EDTA	0.5 mL	MS/MS 3000	20 - 20000 pg/mL
Rizatriptan	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	0.5 - 50 ng/mL
Rofecoxib	Human	Plasma	EDTA	0.5 mL	MS/MS 3000	5 - 1500 ng/mL
Roflumilast	Human	Plasma	EDTA	0.250 mL	MS/MS 3000	40 - 14000 pg/mL
Ropinirole	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	10 - 3500 pg/mL
Ropinirole	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	5 - 2000 pg/mL
Rosiglitazone	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	5 - 1000 ng/mL
Rosuvastatin	Human	Plasma	EDTA	0.5 mL	MS/MS 5000	0.1 - 50 ng/mL
Rosuvastatin	Human	Plasma	EDTA	0.5 mL	MS/MS 5000	50 - 50000 pg/mL
Rotigotine	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	5 - 2000 pg/mL
Rufinamide	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	25 - 10000 ng/mL
Saxagliptin	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	0.25 - 50 ng/mL
Selexipag	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	50 - 50000 pg/mL
[ACT-333679]	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	50 - 50000 pg/mL
Sertraline	Human	Plasma	EDTA	1 mL	MS/MS 3000	0.25 - 50 ng/mL
Sildenafil	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	0.2 - 200 ng/mL
Sildenafil	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	1 - 1000 ng/mL
Sildenafil	Human	Plasma	EDTA	0.2 mL	MS/MS 3000	1 - 600 ng/mL
[N-Desmethylsildenafil]	Human	Plasma	EDTA	0.2 mL	MS/MS 3000	1 - 300 ng/mL
Sildenafil	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	0.3 - 200 ng/mL
Simvastatin	Human	Plasma	EDTA	0.3 mL	MS/MS 5000	0.1 - 50 ng/mL
[Hydroxysimvastatin]	Human	Plasma	EDTA	0.3 mL	MS/MS 5000	0.1 - 20 ng/mL
Sirolimus	Human	Blood	EDTA	1 mL	MS/MS 3000	0.1 - 50 ng/mL
Sitagliptin	Human	Plasma	EDTA	0.05 mL	MS/MS 3000	2 - 700 ng/mL
Sofosbuvir	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	1 - 1500 ng/mL

## Method Status: Validated - Small Molecule

Compound [Metabolite]	Species	Matrix	Anticoagulant	Sample Volume	Platform	Concentration Range
Solifenacin	Human	Plasma	EDTA	0.5 mL	MS/MS 3000	0.25 - 100 ng/mL
Sorafenib	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	10 - 5000 ng/mL
Sulindac	Human	Plasma	Heparin	0.05 mL	MS/MS 5000	30 - 15000 ng/mL
[Sulindac Sulfide]	Human	Plasma	Heparin	0.05 mL	MS/MS 5000	10 - 8000 ng/mL
[Sulindac Sulfone]	Human	Plasma	Heparin	0.05 mL	MS/MS 5000	10 - 8000 ng/mL
Sumatriptan	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	1 - 150 ng/mL
Sunitinib	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	0.3 - 60 ng/mL
Tacrolimus	Human	Blood	EDTA	1 mL	MS/MS 3000	50 - 50000 pg/mL
Tacrolimus	Human	Blood	EDTA	1 mL	MS/MS 5000	5 - 5000 pg/mL
Tadalafil	Human	Plasma	EDTA	0.15 mL	MS/MS 3000	5 - 1000 ng/mL
Tadalafil	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	0.5 - 200 ng/mL
Tamsulosin	Human	Plasma	Heparin	0.15 mL	MS/MS 3000	0.25 - 50 ng/mL
Tamsulosin	Human	Plasma	EDTA	0.2 mL	MS/MS 3000	30 - 60000 pg/mL
Tazarotene	Human	Plasma	NaF/Potassium oxalate	0.5 mL	MS/MS 5000	2 - 500 pg/mL
[Tazarotenic Acid]	Human	Plasma	NaF/Potassium oxalate	0.5 mL	MS/MS 5000	5 - 2500 pg/mL
Telmisartan	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	1 - 500 ng/mL
Telmisartan (with Hydrochlorothiazide)	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	0.5 - 500 ng/mL
Temazepam	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	2.5 - 1500 ng/mL
Tenofovir	Human	Plasma	EDTA	0.4 mL	MS/MS 3000	2.5 - 800 ng/mL
Tenofovir (with Efavirenz and Emtricitabine)	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	2.5 - 800 ng/mL
Tenofovir (with Emtricitabine)	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	2.5 - 800 ng/mL
Terbinafine	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	3 - 1500 ng/mL
Terbinafine	Human	Plasma	EDTA	0.5 mL	HPLC-UV	25 - 2000 ng/mL
Teriflunomide	Human	Plasma	EDTA	0.05 mL	MS/MS 3000	10 - 3500 ng/mL
Testosterone	Human	Serum	N/AP	0.25 mL	MS/MS 5000	25 - 12500 pg/mL
[Dihydrotestosterone]	Human	Serum	N/AP	0.25 mL	MS/MS 5000	10 - 5000 pg/mL
Tetracycline	Human	Plasma	EDTA	0.5 mL	LC-MSD	10 - 2000 ng/mL
Tetrahydrocannabinol (THC, Dronabinol)	Human	Plasma	EDTA	0.2 mL	MS/MS 5000	25 - 10000 pg/mL
[11-hydroxy-delta-9-THC]	Human	Plasma	EDTA	0.2 mL	MS/MS 5000	25 - 10000 pg/mL
Tetrahydrocannabinol (THC, dronabinol)	Human	Plasma	EDTA	0.2 mL	MS/MS 5000	5 - 1500 ng/mL

### Method Status: Validated - Small Molecule

Compound [Metabolite]	Species	Matrix	Anticoagulant	Sample Volume	Platform	Concentration Range
[11-Hydroxy-delta9-THC]	Human	Plasma	EDTA	0.2 mL	MS/MS 5000	0.5 - 150 ng/mL
[Cannabidiol]	Human	Plasma	EDTA	0.2 mL	MS/MS 5000	0.5 - 150 ng/mL
Tetrahydrocannabinol (THC)	Human	Plasma	EDTA	0.2 mL	MS/MS 5000	0.2 - 80 ng/mL
[11-Hydroxy-delta-9-THC]	Human	Plasma	EDTA	0.2 mL	MS/MS 5000	0.2 - 80 ng/mL
[11-nor-9-carboxy-delta-9-THC]	Human	Plasma	EDTA	0.2 mL	MS/MS 5000	0.2 - 80 ng/mL
[Cannabidiol]	Human	Plasma	EDTA	0.2 mL	MS/MS 5000	0.2 - 80 ng/mL
[Cannabinol]	Human	Plasma	EDTA	0.2 mL	MS/MS 5000	0.2 - 80 ng/mL
Theophylline	Human	Plasma	EDTA	0.05 mL	MS/MS 5000	20 - 20000 ng/mL
Thromboxane-B2	Human	Serum	N/AP	0.3 mL	MS/MS 5000	20 - 10000 pg/mL
Tianeptine	Human	Plasma	EDTA	0.2 mL	MS/MS 3000	5 - 600 ng/mL
[Pentanoic Acid metabolite]	Human	Plasma	EDTA	0.2 mL	MS/MS 3000	1 - 150 ng/mL
Tiapride	Human	Plasma	EDTA	1 mL	HPLC-UV	10 - 2000 ng/mL
Ticagrelor	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	5 - 1000 ng/mL
[Desethoxyhydroxy Ticagrelor (AR-C124910XX)]	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	2 - 500 ng/mL
Tiotropium (rat)	Rat	Plasma	EDTA	0.025 mL	MS/MS 5000	10 - 200 pg/mL
Tizanidine	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	50 - 15000 pg/mL
Tofacitinib	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	0.5 - 200 ng/mL
Tolterodine	Human	Plasma	EDTA	0.5 mL	MS/MS 3000	50 - 15000 pg/mL
[5-Hydroxytolterodine]	Human	Plasma	EDTA	0.5 mL	MS/MS 3000	50 - 15000 pg/mL
Topiramate	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	10 - 3000 ng/mL
Topiramate	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	0.1 - 6 µg/mL
Torsemide	Human	Plasma	EDTA	0.2 mL	LC-MSD	50 - 12000 ng/mL
Tramadol	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	2 - 800 ng/mL
[O-Desmethyl Tramadol]	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	0.5 - 200 ng/mL
Tramadol (R-(+))	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	1 - 120 ng/mL
Tramadol (S-(-))	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	1 - 120 ng/mL
[O-Desmethyltramadol (R-(+))]	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	0.25 - 75 ng/mL
[O-Desmethyltramadol (S-(-))]	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	0.25 - 75 ng/mL
Tramadol (R-)	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	1 - 120 ng/mL
Tramadol (S-)	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	1 - 120 ng/mL
Tranlycypromine	Human	Plasma	EDTA	0.2 mL	MS/MS 5000	0.25 - 75 ng/mL

### Method Status: Validated - Small Molecule

Compound [Metabolite]	Species	Matrix	Anticoagulant	Sample Volume	Platform	Concentration Range
Tranlycypromine (R-(+)-)	Human	Plasma	EDTA	0.6 mL	MS/MS 5000	25 - 10000 pg/mL
Tranlycypromine (S-(-)-)	Human	Plasma	EDTA	0.6 mL	MS/MS 5000	250 - 75000 pg/mL
Trazodone	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	20 - 4000 ng/mL
Triamcinolone Acetonide	Human	Plasma	EDTA	0.4 mL	MS/MS 5000	10 - 7500 pg/mL
Triamcinolone hexacetonide	Human	Plasma	EDTA	0.2 mL	MS/MS 5000	10 - 7500 pg/mL
[Triamcinolone acetonide]	Human	Plasma	EDTA	0.2 mL	MS/MS 5000	10 - 7500 pg/mL
Triazolam	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	25 - 5000 pg/mL
Trimebutine	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	2.5 - 800 ng/mL
Trimebutine	Human	Urine	N/AP	0.1 mL	HPLC-FL	0.1 - 20 µg/mL
[N-Desmethyltrimebutine total]	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	5 - 8000 ng/mL
[N-Desmethyltrimebutine]	Human	Urine	N/AP	0.1 mL	HPLC-FL	0.1 - 20 µg/mL
Trimetazidine	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	0.5 - 150 ng/mL
Trimethobenzamide	Human	Plasma	EDTA	1 mL	HPLC-FL	10 - 3000 ng/mL
Trimipramine	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	0.25 - 200 ng/mL
Ursodiol	Human	Plasma	EDTA	0.5 mL	MS/MS 3000	10 - 5000 ng/mL
[Glycoursodiol]	Human	Plasma	EDTA	0.5 mL	MS/MS 3000	10 - 5000 ng/mL
[Tauroursodiol]	Human	Plasma	EDTA	0.5 mL	MS/MS 3000	10 - 5000 ng/mL
Valacyclovir	Human	Plasma	EDTA	0.25 mL	MS/MS 3000	1 - 400 ng/mL
[Acyclovir]	Human	Plasma	EDTA	0.25 mL	MS/MS 3000	25 - 7500 ng/mL
[Acyclovir]	Human	Plasma	EDTA	0.25 mL	MS/MS 3000	0.1 - 7.5 µg/mL
Valganciclovir	Human	Plasma	EDTA	0.25 mL	MS/MS 3000	2.5 - 500 ng/mL
[Ganciclovir]	Human	Plasma	EDTA	0.25 mL	MS/MS 3000	0.1 - 10 µg/mL
Valproic Acid	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	0.5 - 100 µg/mL
Valsartan	Human	Plasma	EDTA	0.05 mL	MS/MS 3000	50 - 15000 ng/mL
Vardenafil	Human	Plasma	EDTA	0.2 mL	MS/MS 5000	50 - 50000 pg/mL
Venlafaxine	Human	Plasma	EDTA	0.25 mL	MS/MS 3000	2.5 - 500 ng/mL
[O-Desmethylvenlafaxine]	Human	Plasma	EDTA	0.25 mL	MS/MS 3000	5 - 800 ng/mL
Verapamil	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	1 - 300 ng/mL
Vigabatrin	Human	Plasma	EDTA	0.05 mL	MS/MS 3000	0.2 - 100 µg/mL
Vildagliptin	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	2 - 500 ng/mL
Voriconazole	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	10 - 3000 ng/mL

### Method Status: Validated - Small Molecule

Compound [Metabolite]	Species	Matrix	Anticoagulant	Sample Volume	Platform	Concentration Range
Warfarin	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	5 - 2500 ng/mL
Warfarin (R-)	Human	Plasma	EDTA	0.2 mL	MS/MS 3000	5 - 1000 ng/mL
Warfarin (S-)	Human	Plasma	EDTA	0.2 mL	MS/MS 3000	5 - 1000 ng/mL
Warfarin (R-)	Human	Plasma	EDTA	0.2 mL	MS/MS 3000	25 - 3000 ng/mL
Warfarin (S-)	Human	Plasma	EDTA	0.2 mL	MS/MS 3000	25 - 3000 ng/mL
Zaleplon	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	0.3 - 50 ng/mL
Zidovudine	Human	Plasma	EDTA	1 mL	HPLC-UV	10 - 3000 ng/mL
Zileuton	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	30 - 15000 ng/mL
Ziprasidone	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	0.5 - 400 ng/mL
Zofenopril	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	0.5 - 200 ng/mL
Zolmitriptan	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	50 - 15000 pg/mL
[N-Desmethylzolmitriptan]	Human	Plasma	EDTA	0.1 mL	MS/MS 5000	50 - 6000 pg/mL
Zolpidem	Human	Plasma	EDTA	0.1 mL	MS/MS 3000	1 - 300 ng/mL
Zopiclone	Human	Plasma	EDTA	1 mL	LC-MSD	5 - 150 ng/mL