

List of Validated Methods (January 2018)

Compound	Matrix	LLOQ	Curve Range	Sample Volume	Anticoagulant	Method	Storage Temp	Lab Site
A								
Acetaminophen	Human Plasma	20 ng/mL	20-20000ng/mL	20 µL	Sodium Heparin/K3EDTA	LC/MS/MS	-20	Frontage - US
Acetazolamide	Human Dried Blood Spot	250 ng/mL	250-25000 ng/mL	75 µL	K2EDTA	LC/MS/MS	-80	Frontage - US
5-Acetylamino-6-Formylamino-3-Methyluracil/1-Methylxanthine	Human Urine	100/100 ng/mL	100/100-25000/25000 ng/mL	20 µL	NA	LC/MS/MS	-70	Frontage - US
Acetylsalicylic Acid/Salicylic Acid	Human Plasma	20/50 ng/mL	20/50 - 10,000/50,000 ng/mL	50 µL	NaF	LC/MS/MS	-70	Frontage - US
Albuterol	Human Plasma	10 pg/mL	10-4000 pg/mL	1000 µL	K3EDTA	LC/MS/MS	-20	Frontage - US
Aldosterone	Human Plasma	10 pg/mL	10 - 10000 pg/mL	200 µL	K2EDTA	LC/MS/MS	-70	Frontage - US
Alfuzosin	Human Plasma	0.5 ng/mL	0.5-30 ng/mL	200 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Alprazolam	Human Plasma	0.2 ng/mL	0.2-30 ng/mL	200 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Alvimopan	Human Plasma	0.100 ng/mL	0.100 - 200 ng/mL	25 µL	K2EDTA	LC/MS/MS	-20/-70	Frontage - US
Amlodipine	Human Plasma	0.2 ng/mL	0.2-400 ng/mL	200 µL	K3EDTA/K2EDTA	LC/MS/MS	-20	Frontage - US
Amlodipine	Human Plasma	0.2 ng/mL	0.2-40 ng/mL	200 µL	K3EDTA	LC/MS/MS	-20	Frontage - SH
Amlodipine and Valsartan	Human Plasma	0.2/10 ng/mL	0.2/10-100/5000 ng/mL	50 µL	K2EDTA	LC/MS/MS	-70	Frontage - SH
Amoxicillin	Human Plasma	50 ng/mL	50-25000 ng/mL	100 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
R(-)-Amphetamine and S(+)-Amphetamine	Human Plasma	0.050 ng/mL	0.050- 50.0 ng/mL	100 µL	K2EDTA	LC/MS/MS	-20/-70	Frontage - US
Ampicillin	Human Dried Blood Spot	0.05 ug/ml	0.05-50.0 ug/ml	30ul	K2EDTA	LC/MS/MS	-70	Frontage - US
Asenapine	Human Plasma	0.025 ng/mL	0.025-20 ng/mL	250 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Atazanavir	Human Plasma	25 ng/mL	25-10000 ng/mL	50 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Atorvastatin	Human Plasma	0.2 ng/mL	0.2-200 ng/mL	200 µL	K3EDTA	LC/MS/MS	-20	Frontage - US
Atovastatin/2-Hydroxy Atorvastatin/4-Hydroxy Atorvastatin	Human Plasma	0.2/0.2/0.2 ng/mL	0.2/0.2/0.2-100/100/100 ng/mL	200 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Aripiprazole	Human Plasma	0.5 ng/mL	0.5-500 ng/mL	50 µL	K2EDTA	LC/MS/MS	-20/-70	Frontage - US
Azacididine	Human Plasma	5.00 ng/mL	5.00-2000 ng/mL	50 µL	K2EDTA	LC/MS/MS	-20/-70	Frontage - US
Azithromycin	Human Plasma	1 ng/mL	1-1000 ng/mL	50 µL	K2EDTA	LC/MS/MS	-70	Frontage - SH
B								
Active Vitamin B-12	Human plasma/serum	8 pmol/L	8-128 pmol/L	173 µL	K2EDTA/NA	MEIA	-20	Frontage - US
Baclofen	Human Plasma	20 ng/mL	20-2000 ng/mL	25 µL	K2EDTA	LC/MS/MS	-20/-70	Frontage - US
Vitamin B-12	Human plasma/serum	100 pg/mL	100-2000 pg/mL	210 µL	K2EDTA/NA	MEIA	-20	Frontage - US
Vitamin B-12	Human plasma/serum	200 pg/mL	200-2500 pg/mL	50 µL	K2EDTA	ELISA	-20	Frontage - US
Bergamottin/6', 7' -Dihydroxybergamottin/Naringenin	Grapefruit Juice	0.1/0.1/0.1 µg/mL	0.1/0.1/0.1-20/20/20 µg/mL	50 µL	NA	LC/MS/MS	4	Frontage - US
Bortezomib	Human Plasma	0.1 ng/mL	0.1-100 ng/mL	20 µL	Sodium Heparin	LC/MS/MS	-70	Frontage - US
Bupropion/Hydroxy Bupropion	Human Urine	2 ng/mL	2-2000 ng/mL	25 µL	NA	LC/MS/MS	-70	Frontage - US
Bupropion/Hydroxy Bupropion	Human Plasma	0.5/1 ng/mL	0.5/1-250/500 ng/mL	100 µL	K2EDTA	LC/MS/MS	-70	Frontage - US
Butalbital	Human Plasma	50 ng/mL	50-5000 ng/mL	200 µL	K3EDTA	LC/MS/MS	-20	Frontage - US
Butalbital/Codeine	Human Plasma	50/1 ng/mL	50/1-5000/200 ng/mL	200 µL	K3EDTA	LC/MS/MS	-20	Frontage - US
C								
Carfilzomib	Human Plasma	4 ng/mL	4-4000 ng/mL	20 µL	Sodium Heparin	LC/MS/MS	-20	Frontage - US
Capecitabine/ 5-Fluorouracil	Human Plasma	25/10 ng/mL	25/10-10000/4000 ng/mL	50 µL	K2EDTA	LC/MS/MS	-70	Frontage - US
Caffeine	Human Plasma	20 ng/mL	20-20000 ng/mL	20 µL	Sodium Heparin	LC/MS/MS	-20	Frontage - US
Caffeine/Paraxanthine	Human Plasma	20/20 ng/mL	20/20-20000/20000 ng/mL	50 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Campesterol/Cholestenol	Human Serum	0.2/0.2 µg/mL	0.2/0.2-20/20 µg/mL	50 µL	NA	LC/MS/MS	-70	*
Candesartan/Hydrochlorothiazide	Human Plasma	2/2 ng/mL	2/2-500/500 ng/mL	100 µL	K2EDTA	LC/MS/MS	-70	Frontage - SH
Carbamazepine	Human Plasma/Serum	50 ng/mL	50-10000 ng/mL, 500-50000 ng/mL, 50-25000 ng/mL	50 µL	K2EDTA/K3EDTA	LC/MS/MS	-20	Frontage - US
Cabamazepine 10,11-Epoide/Carbamazapine/Valproic Acid	Human Serum	30/50/1000 ng/mL	30/50/1000-15000/25000/50000 ng/mL	50 µL	NA	LC/MS/MS	-20	Frontage - US

Carbamazepine/Lamotrigine/Levetiracetam/Pregabalin/Gabapentin	Human Plasma	500/500/1000/500/500 ng/mL	500/500/1000/500/500-50000/50000/100000/50000/50000 ng/mL	50 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Carboplatin	Human Plasma	1.00 and 2.00 ng/mL	1-500 ng/mL and 2.00-200 ng/mL	50 and 100 µL	K2EDTA	LC/MS/MS and ICP-MS	-70	Frontage -US
Carboplatin (free)	Human Plasma Ultrafiltrate	1 ng/mL	1-1000 ng/mL	1000 µL	K2EDTA	LC/MS/MS	-70	Frontage - US
Cefixime	Human Plasma	20 ng/mL	20-20000 ng/mL	40 µL	K2EDTA	LC/MS/MS	-70	Frontage - US
Ceftazidime	Human Plasma	0.2 µg/mL	0.2-50 µg/mL	25 µL	K2EDTA	LC/MS/MS	-70	Frontage - US
Celecoxib	Human Plasma	2 ng/mL	2-2000 ng/mL	50 µL	K2EDTA	LC/MS/MS	-70	Frontage - SH
Certirizine	Human Plasma	0.5 ng/mL	0.5-400 ng/mL	50 µL	EDTA	HPLC	-20	Frontage - US
Ceftobiprole Medocaril	Human Plasma	50 ng/mL	50-1000 ng/mL	50 µL	K2EDTA	LC/MS/MS	-70	Frontage - SH
Ceftobiprole	Human Plasma	50 ng/mL	50-25000 ng/mL	50 µL	K2EDTA	LC/MS/MS	-70	Frontage - SH
Chlorpheniramine/Hydrocodone/ Pseudoephedrine	Human Plasma	0.25/0.05/0.5 ng/mL	0.25/0.05/0.5-12.5/25/250 ng/mL	250 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Chlorthalidone	Human Plasma	1 ng/mL	1- 1000 ng/mL	100 µL	K2EDTA	LC/MS/MS	-70	Frontage - US
Cholestanol/Desmosterol/Sitosterol	Human Serum	0.2/0.2/0.2 µg/mL	0.2/0.2/0.2-20/20/20 µg/mL	50 µL	NA	LC/MS/MS	-70	*
Cholic Acid/Glycocholic Acid/Taurocholic Acid	Human Plasma	2/2/2 ng/mL	2/2/2-2000/2000/2000 ng/mL	100 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Ciclesonide/Des-Ciclesonide metabolite	Human Serum	1 pg/mL	1-500 pg/mL	500 µL	NA	LC/MS/MS	-20	Frontage - US
Cisplatin (free)	Human Plasma Ultrafiltrate	1 ng/mL	1-1000 ng/mL	*	K2EDTA	LC/MS/MS	*	Frontage - US
Citalopram	Human Plasma	0.2 ng/mL	0.2-75 ng/mL and 0.2-200 ng/mL	100 µL and 200 µL	K2EDTA/K3EDTA	LC/MS/MS	-20	Frontage - US
Citrulline	Human Plasma	250 ng/mL	250-250000 ng/mL	10 µL	Heparin	LC/MS/MS	-20	Frontage - SH
Clarithromycin	Human Plasma	10 ng/mL	10-5000 ng/mL	50 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Clarithromycin	Human Dried Blood Spot	10 ng/mL	10-5000 ng/mL	50 µL	K2EDTA	LC/MS/MS	RT	Frontage - US
Clindamycin	Human Plasma	20 ng/mL	20-10000 ng/mL	25 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Clobazam/Acetazolamide	Human Plasma	5/500 ng/mL	5/500-500/50000 ng/mL	50 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Clonazepam	Human Plasma/Serum	1 ng/mL	1-1000 ng/mL	50 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Clopidogrel	Human Plasma	5 pg/mL	5-2000 pg/mL	200 µL	K2EDTA	LC/MS/MS	-70	Frontage - SH
Clopidogrel Acid	Human Plasma	10 ng/mL	10-7000 ng/mL	50 µL	K2EDTA	LC/MS/MS	-70	Frontage - SH
Clozapine/ N-Desmethyleclozapine	Human Plasma	1/1 ng/mL and 5/5 ng/mL	1/1-500/500 ng/mL and 5/5-1000/1000 ng/mL	250 µL and 50 µL	EDTA	LC/MS/MS	-20	Frontage - US
Codeine	Human Plasma	1 ng/mL and 0.200 ng/mL	1-200 ng/mL and 0.200 - 200 ng/mL	100 and 200 µL	K2EDTA/K3EDTA	LC/MS/MS	-20	Frontage - US
Codeine / Butalbital	Human Plasma	1, 50 ng/mL	1/50-200/5000	200 µL	K3EDTA	LC/MS/MS	-20	Frontage - US
Colchicine	Human Plasma	0.02/0.05 ng/mL	0.02-20 ng/mL/0.05-20 ng/mL	100/200 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Cortisol	Human Serum	1 ng/mL	1-500 ng/mL	50 µL	NA	LC/MS/MS	-20	Frontage - US
Cortisol/6B-Hydroxycortisol	Human Urine	1/5 ng/mL	1/5-200/1000 ng/mL	100 µL	NA	LC/MS/MS	-20	Frontage - US
Cyclophosphamide	Human Plasma	0.25 µg/mL	0.25-50 µg/mL	50 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
D								
Danazol/Ethisterone	Human Serum	0.5, 0.5 ng/mL	0.5/0.5-100/100 ng/mL	200 µL	NA	LC/MS/MS	-70	Frontage - US
Dapoxetine/Desmethyl Dapoxetine	Human Plasma	1/0.2 ng/mL	1/0.2-1000/200 ng/mL	100 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Desipramine	Human Plasma	0.25 ng/mL	0.25-100 ng/mL	100 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Desmopressin	Human Plasma	2 pg/mL	2-200 pg/mL	500 µL	K2EDTA	LC/MS/MS	-70	Frontage - US
Dexamethasone	Human Plasma	0.5 ng/mL	0.5-500 ng/mL	100 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Dexlansoprazole (Lansoprazole)	Human Plasma	5 ng/mL	5-2000 ng/mL	50 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Dextromethorphan/Dextrorphan	Human Urine	5/400 ng/mL	5/400-500/40000 ng/mL	50 µL	NA	LC/MS/MS	-20	Frontage - US
Dextromethorphan and Total Dextrorphan or Total Dextrorphan Only	Human Plasma	0.06/0.6 ng/mL	0.06/0.6-30/300 ng/mL	50 µL	EDTA	LC/MS/MS	-20	Frontage - US
2',2'-difluoro-2'-deoxyuridine (dFdU)	Human Plasma	2.00 ng/mL	2.00 - 2000 ng/mL	50 µL	K2EDTA	LC/MS/MS	-20/-70	Frontage- US
Diazepam	Human Plasma/Serum	1 ng/mL	1-1000 ng/mL	50 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Diazoxide	Human Plasma	0.5 µg/mL	0.5-80 µg/mL	20 µL	K2EDTA	LC/MS/MS	-70	Frontage - US
Diclofenac	Human Plasma	1 ng/mL	1-500 ng/mL	50 µL	K2EDTA	LC/MS/MS	-70	Frontage - SH
Diethylene Glycol Monoethyl Ether/Ethoxyethoxy Acetic Acid	Acidified Human Plasma	1/0.1 ng/mL	1/0.1-100/100 ng/mL	50 µL	K2EDTA	LC/MS/MS	-70	Frontage - US
Digoxin	Human Plasma	50 pg/mL	50 - 25000 pg/mL	200 µL	K2EDTA	LC/MS/MS	-70	Frontage - US
Diltiazem/Desacetyldiltiazem/ N-desmethyldiltiazem	Human Plasma	2/0.5/0.5 ng/mL and 2/0.1/0.1 ng/mL	2/0.5/0.5-500/125/125 ng/mL and 1-500 ng/mL	50 µL	K2EDTA/K3EDTA	LC/MS/MS	-20	Frontage - SH
Diphenoxylate	Human Plasma	2 ng/mL	2-250 ng/mL	50 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Diphenoxylate	Human Plasma	0.2 ng/mL	0.2-25 ng/mL	200 µL	K2EDTA	LC/MS/MS	-20	Frontage - US

Docetaxel	Human Plasma	2 ng/mL	2-400 ng/mL	100 µL	Heparin	LC/MS/MS	-20	Frontage - US
Dofetilide	Human Plasma	5 pg/mL	5-5000 pg/mL	200 µL	K2EDTA	LC/MS/MS	-70	Frontage - US
Donepezil	Human Plasma	0.1 ng/mL	0.1-50 ng/mL	200 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Doxorubicin	Human Plasma	1 ng/mL	1 -1000 ng/mL	50 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Doxycycline	Human Plasma	50 ng/mL	50-10000 ng/mL	200 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
E								
Efavirenz	Human Plasma	25 ng/mL	25-10000 ng/mL	50 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Entecavir	Human Plasma	0.05 ng/mL	0.05-20 ng/mL	50 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Entecavir	Dried Blood Spot	0.05 ng/mL	0.05-20 ng/mL	50 µL	K2EDTA	LC/MS/MS	RT	Frontage - US
Esomeprazole	Human Plasma	2 ng/mL	2-600 ng/mL	200 µL	K3EDTA	LC/MS/MS	-20	Frontage - US
Erlotinib	Human Plasma	2 ng/mL and 5 ng/mL	2-1000 ng/mL and 5-5000 ng/mL	25 µL and 200 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Ertapenem	Human Plasma	5 ng/mL	5 - 5000 ng/mL	25 µL	K2EDTA	LC/MS/MS	-20/-70	Frontage - US
Ergosterol	Human Plasma	2 ng/mL	2-96 ng/mL	500 µL	K2EDTA	LC/MS/MS	-20	Frontage - SH
Estrone/Equiline	Human Plasma	5/2 pg/mL	5/2-750/300 pg/mL	250 µL	K2EDTA	LC/MS/MS	-70	Frontage - SH
Estrone Sulfate/Equiline Sulfate	Human Plasma	50/50 pg/mL	50/50-15000/15000 pg/mL	100 µL	K2EDTA	LC/MS/MS	-70	Frontage - SH
Ethisterone	Human Serum	0.5 ng/mL	0.5-100 ng/mL	200 µL	NA	LC/MS/MS	-70	Frontage - US
Ethosuximide	Human Serum	50 ng/mL	50-50000 ng/mL	50 µL	NA	LC/MS/MS	-20	Frontage - US
Etodolac	Human Plasma	0.4 µg/mL	0.4-40 µg/mL	50 µL	K2EDTA	LC/MS/MS	-70	Frontage - SH
Ethinyl Estradiol/Norgestimate/ 17-Desacetyl Norgestimate	Human Plasma	2/5/5 pg/mL	2/5/5-1000/2500/2500 pg/mL	500 µL	Lithium Heparin	LC/MS/MS	-20	Frontage - US
Exemestane	Human Plasma	0.1 ng/mL	0.1 - 50 ng/mL	250 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
F								
Felbamate	Human Plasma/Serum	10 ng/mL	10-10000 ng/mL	50 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Felodipine	Human Plasma	0.05 ng/mL	0.05-15 ng/mL	200 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Fenofibric Acid	Human Plasma	250 ng/mL	250-25000 ng/mL	200 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Fenofibric Acid	Human Plasma	100 ng/mL	100-25000 ng/mL	50 µL	K2EDTA	LC/MS/MS	-20	*
Fentanyl	Human Plasma	25 ng/mL	25-10000 ng/mL	100 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Fexofenadine/Pseudoephedrine	Human Plasma	5/5 ng/mL	5/5-1000/2000 ng/mL	200 µL	K2EDTA	LC/MS/MS	-70	Frontage - US
Fluticasone Furoate	Human Plasma	0.2 pg/mL	0.2-100 pg/mL	1 mL	K2EDTA	LC/MS/MS	-20	Frontage - US
Fluticasone Propionate	Human Plasma	5 pg/mL	5-5000 pg/mL	100 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Flurbiprofen	Human Plasma	40 ng/mL	40-10000 ng/mL	25 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Formoterol	Human Plasma	0.5 pg/mL and 2.5 pg/mL	0.5-30 pg/mL, 0.5-200 pg/mL, and 2.5-200 pg/mL	500 µL	K2EDTA/K3EDTA	LC/MS/MS	-70	Frontage - US
Formoterol	Human Urine	2.5 pg/mL and 20 pg/mL	2.5-200 pg/mL and 20-10000 pg/mL	2 mL and 1.0 mL	NA	LC/MS/MS	-20	Frontage - US
Frovatriptan	Human Plasma	10 pg/ml	10-10000 pg/ml	100ul	K2EDTA	LC/MS/MS	-70	Frontage - US
G								
Gabapentin	Human Plasma/Serum	10 ng/mL	10-10000 ng/mL	20 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Gemcitabine	Human Plasma/Serum	0.5 ng/mL and 2.00 ng/mL	0.5-500 ng/mL and 2.00 - 800 ng/mL	100 µL	K2EDTA	LC/MS/MS	-70	Frontage - US
Gemfibrozil	Human Plasma	200 ng/mL	200-20000 ng/mL	200 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Glipizide	Human Plasma	2 ng/mL	2-800 ng/mL	50 µL	K2EDTA	LC/MS/MS	-70	Frontage - SH
Glycopyrrolate	Human Plasma	0.5pg/mL	0.5 - 250pg/mL	500 µL	Lithium Heparin	LC/MS/MS	-20	Frontage - US
Granisetron	Human Plasma	20 pg/mL	20-20000 pg/mL	20 µL	K2EDTA	LC/MS/MS	-20/-70	Frontage - US
Guaifenesin	Human Plasma	10 ng/mL	10-1500 ng/mL	200 µL	Sodium Heparin	LC/MS/MS	-20	Frontage - US
Guaifenesin/Pseudoephedrine	Human Plasma	10/10 ng/mL	10/10-1500/2000 ng/mL	200 µL	Sodium Heparin/K2EDTA	LC/MS/MS	-20	Frontage - US
(R/S)-N2-(1-carboxyethyl)-2'-deoxyguanosine	Human Urine	0.1/0.1 ng/mL	0.1/0.1-50/50 ng/mL	500 µL	NA	LC/MS/MS	-20	Frontage - US
H								
Hydralazine	Human Blood	0.5 ng/mL	0.5-200 ng/mL	200 µL	K3EDTA	LC/MS/MS	-70	Frontage - US
α-Hydroxy-Metoprolol	Human Plasma	0.200 ng/mL	0.200 - 100 ng/mL	100 µL	K2EDTA	LC/MS/MS	-20/-70	Frontage - US
4β-Hydroxycholesterol	Human Plasma	5 ng/mL	5-500 ng/mL	50 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
5-Hydroxyindoleacetic Acid	Human Plasma	1 ng/mL	1-200 ng/mL	100 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
1-Hydroxy Midazolam/4-Hydroxy Midazolam	Human Plasma	0.1 ng/mL	0.1-100 ng/mL	100 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
5-Hydroxy Omeprazole/Omeprazole Sulfone	Human Plasma	1 ng/mL	1-1000 ng/mL	100 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
(S)-7-Hydroxy Warfarin	Human Plasma	2.00 ng/mL	2.00-600 ng/mL	10 µL	K2EDTA	LC/MS/MS	-20/-70	Frontage - US
Homocysteine	Human Serum/Plasma	2.5 umol/L	2.5-50 umol/L	200 µL	FPIA	LC/MS/MS	-70	Frontage - US

Hydrocodone	Human Plasma	0.050 ng/mL	0.050 - 50.0 ng/mL	100 µL	K2EDTA	LC/MS/MS	-70	Frontage - US
Hydrochlorothiazide	Human Plasma/Urine	2 ng/mL and 2 µg/mL	2-1500 ng/mL and 2-200 µg/mL	100/30 µL	K2EDTA	LC/MS/MS	-20/-70	Frontage - US
I								
Ibrutinib	Human Plasma	1 ng/mL	1-400 ng/mL	50 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Ibuprofen	Human Plasma	2 ng/mL	2-2000 ng/mL	200 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Ibuprofen	Human Plasma	0.5 ng/mL	0.5-500 ng/mL	100 µL	K2EDTA	LC/MS/MS	-70	Frontage - US
Ibuprofen	Human Plasma	2 ng/mL and 40 ng/mL	2-2000 ng/mL and 40-40000 ng/mL	100 µL	Sodium Heparin	LC/MS/MS	-20	Frontage - US
Imipenem	Human Plasma	0.2 µg/mL	0.2-100 µg/mL	50 µL	Sodium Heparin	LC/MS/MS	-70	Frontage - US
Indomethacin	Human Plasma	10 ng/mL	10-4000 ng/mL	50 µL	K2EDTA	LC/MS/MS	-70	Frontage - SH
Irinocetan and SN-38	Human Plasma	2 ng/mL	2-1000 ng/mL	50 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Itraconazole/Hydroxy Itraconazole	Human Plasma	1/1 ng/mL	1/1-500/500 ng/mL	100 µL	Lithium Heparin	LC/MS/MS	-20	Frontage - US
K								
Ketoconazole	Human Plasma	20 ng/mL	20-10000 ng/mL	50 µL	K2EDTA	LC/MS/MS	-70	Frontage - SH
Ketoprofen	Human Plasma	5 ng/mL	5-2500 ng/mL	200 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Ketorolac	Human Plasma	5 ng/mL	5-200 ng/mL	100 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
L								
Lamivudine and Zidovudine	Human Plasma	4/4 ng/mL	4/4 - 4000/4000 ng/mL	50 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Lamotrigine	Human Plasma/Serum	5 ng/mL	5-500, 500-50000	200 µL/50 µL	K2EDTA/K3EDTA	LC/MS/MS	-20	Frontage - US
Lansoprazole	Human Plasma	10 ng/mL	10-2000 ng/mL	100 µL	Sodium Heparin	LC/MS/MS	-20	Frontage - US
Lenalidomide	Human Plasma	0.5 ng/mL	0.5-500 ng/mL	50 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Letrozole	Human Plasma	0.5 ng/mL	0.5-150 ng/mL	200 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Levetiracetam	Human Plasma	1 ng/mL	1-1000 ng/mL	TBD	K2EDTA	LC/MS/MS	-20	Frontage - US
Lidocaine	Human Plasma	10 ng/mL	10-5000 ng/mL	20 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Loperamide	Human Plasma	10 pg/mL	10-2000 pg/mL	200 µL	EDTA	LC/MS/MS	-20	Frontage - US
Lovastatin	Human Plasma	0.5 ng/mL	0.5-48 ng/mL	500 µL	K2EDTA	LC/MS/MS	-20	Frontage - SH
Lovastatin Hydroxy Acid	Human Plasma	0.5 ng/mL	0.5-49 ng/mL	500 µL	K2EDTA	LC/MS/MS	-20	Frontage - SH
M								
Mefenamic Acid	Human Plasma	100 ng/mL	100-8000 ng/mL	30 µL	K2EDTA	LC/MS/MS	-20/-70	Frontage - US
Megestrol Acetate	Human Plasma	2 ng/mL	2-1500 ng/mL	50 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Meloxicam	Human Plasma	10 ng/mL	10-3000 ng/mL	50 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Memantine	Human Plasma	0.1 ng/mL	0.1-50 ng/mL	100 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Menadione	Human Plasma	1 ng/mL	1-500 ng/mL	500 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Menaquinone-4	Human Plasma	1 ng/mL	1-500 ng/mL	200 µL	EDTA	LC/MS/MS	-20	Frontage - US
Mesalamine/N-Acetyl Mesalamine	Human Plasma	5/5 ng/mL	5/5-4000/4000 ng/mL	100 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Mesalamine/N-Acetyl Mesalamine	Human Plasma	0.5/0.5 ng/mL	0.5/0.5-400/400 ng/mL	50 µL	K2EDTA	LC/MS/MS	-70	Frontage - US
Metformin	Human Plasma	5 ng/mL	5-2000 ng/mL	200 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Methylprednisolone	Human Plasma	0.2 ng/mL	0.2-200 ng/mL	200 µL	K2EDTA	LC/MS/MS	-20	Frontage - SH
Methotrexate/7-hydroxy methotrexate	Human Plasma	1/1 ng/mL	1/1-1000/1000 ng/mL	50 µL	EDTA	LC/MS/MS	-20	Frontage - US
Methylmalonic Acid	Human Serum	20 ng/mL	20-20000 ng/mL	50 µL	NA	GC/MS	-20	Frontage - US
Methylmalonic Acid	Human Serum	5 ng/mL	5-200 ng/mL	50 µL	NA	LC/MS/MS	-70	Frontage - US
Methylphenidate	Human Plasma	50 pg/mL	50-25000 pg/mL	100 µL	K2EDTA	LC/MS/MS	-70	Frontage - US
Methylprednisolone	Acidified/Non-acidified Human Plasma	2 ng/mL, 0.2 ng/mL	2-200 ng/mL, 0.2-200 ng/mL	50 µL, 200 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Metoprolol	Human Plasma	2 ng/mL and 0.200 ng/mL	2-200 ng/mL and 0.200-100 ng/mL	50 and 100 µL	K2EDTA	LC/MS/MS	-20/-70	Frontage - SH
Metronidazole	Human Plasma	1 ng/mL	1-500 ng/mL	100 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Mexiletine	Human Plasma	3 ng/mL	3 - 3000 ng/mL	20 µL	K2EDTA	LC/MS/MS	-70	Frontage - US
Midazolam	Human Plasma	0.1 ng/mL	0.1-100 ng/mL	20 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Midazolam/1-Hydroxy Midazolam	Human Plasma	0.1/0.1 ng/mL	0.1/0.1-100/100 ng/mL	200 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Midazolam/1-Hydroxy Midazolam/4-Hydroxy Midazolam	Human Plasma	0.1/0.1/0.1 ng/mL	0.1/0.1/0.1 - 100/100/100 ng/mL	100 µL	Sodium Heparin	LC/MS/MS	-20	Frontage - US
Milrinone	Human Dried Blood Spot	5 ng/ml	5-500ng/ml	30ul	K2EDTA	LC/MS/MS	-70	Frontage - US
Mirtazapin	Human Plasma	0.1 ng/mL	0.1- 100 ng/mL	25 µL	Sodium Heparin	LC/MS/MS	-20	Frontage - US
Misoprostol Acid	Human Plasma	5 pg/mL	5-1000 pg/mL	300 µL	K2EDTA	LC/MS/MS	-70	Frontage - SH
Montelukast	Human Plasma	1 ng/mL	1-500 ng/mL	100 µL	K2EDTA	LC/MS/MS	-20	Frontage - US

Moxifloxacin	Human Plasma	50 ng/mL	50-6000 ng/mL	200 µL	K3EDTA	LC/MS/MS	-20	Frontage - US
N								
Naproxen	Human Plasma	0.5 µg/mL	0.5-100 ug/mL	50 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Nevirapine	Human Plasma	50 ng/mL	50-10000 ng/mL	50 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Nicardipine	Human Dried Blood Spot/Human Plasma	0.5/0.05 ng/ml	0.5-100ng/ml and 0.05-50 ng/mL	30ul and 20 µL	K2EDTA	LC/MS/MS	-70	Frontage - US
Nifedipine	Human Plasma	0.5 ng/mL	0.5-250 ng/mL	50 µL	K2EDTA	LC/MS/MS	-70	Frontage - SH
Nitrazepam	Human Plasma	0.2 ng/mL	0.2-100 ng/mL	50 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
O								
Octanoic Acid	Human Plasma	20 ng/mL	20-1000 ng/mL	400 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
1-Octanol	Human Plasma	20 ng/mL	20-1000 ng/mL	100 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Omeprazole	Human Plasma	0.5 ng/mL, 1 ng/mL	0.5-50 ng/mL, 1-1000 ng/mL	50 µL	EDTA	LC/MS/MS	-20	Frontage - US
Omeprazole/5-Hydroxyomeprazole	Human Plasma	1.0/1.0 ng/mL	1.0/1.0 - 1000/1000 ng/mL	50 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Oxybutynin/Desethyloxybutynin	Human Plasma	0.1/0.5 ng/mL	0.1/0.5-50/250 ng/mL	200 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Oxcarbazepine	Human Plasma/Serum	50 ng/mL	50-5000 ng/mL	50 µL	K2EDTA/K3EDTA	LC/MS/MS	-20	Frontage - US
Oxcarbazepine / Hydroxyoxcarbazepine	Human Plasma	10/100 ng/mL	10/100-2500/18000 ng/mL	200 µL	K3EDTA	LC/MS/MS	-70	Frontage - US
Oxcarbazepine/10-Monohydroxy-10,11 dihydrocarbamazepine	Human Plasma	1 ng/mL and 10/100 ng/mL	10/100-2500/20000 ng/mL and 1-1000 ng/mL	100 µL	K2EDTA	LC/MS/MS	-70	Frontage - US
Oxycodone	Human Plasma	0.05 ng/mL	0.05-50 ng/mL	100 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Oxymorphone and 6-Hydroxyoxymorphone	Human Plasma	0.05/0.05 ng/mL	0.05/0.05 - 20/20 ng/mL	200 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
P								
Paclitaxel	Human Plasma	2 ng/mL	2 -2000 ng/mL	100 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Paraxanthine	Human Plasma	20 ng/mL	20-20000 ng/mL	50 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Paroxetine	Human Plasma	0.1 ng/mL	0.1-100 ng/mL	100 µL and 200 µL	K2EDTA	LC/MS/MS	-70	Frontage - SH
Pemetrexed	Human Plasma	10 ng/ml	10-6000ng/ml	50ul	K2EDTA	LC/MS/MS	-20	Frontage - US
Pentobarbital	Human Plasma/Serum	50 ng/mL	50-5000 ng/mL	50 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Phenobarbital	Human Plasma	50 ng/mL	50-5000 ng/mL	50 µL	K2EDTA/K3EDTA	LC/MS/MS	-20	Frontage - US
p-Hydroxyphenobarbital/p-Hydroxyphenobarbital-O-Glucuronide	Human Plasma	2/2 ng/mL	2/2-1000/1000 ng/mL	200 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Phenobarbital N-Glucoside	Human Plasma	2 ng/mL	2-1000 ng/mL	200 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Phenytoin	Human Plasma	50 ng/mL and 250 ng/mL	50-5000 ng/mL and 250-10000 ng/mL	50 µL and 20 µL	K2EDTA/K3EDTA	LC/MS/MS	-20	Frontage - US
Phenytoin	Supernatant of Human Plasma	1 ng/mL	1-500 ng/mL	40 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Phenytoin	Human Serum	50 ng/mL	50-5000 ng/mL	50 µL	NA	LC/MS/MS	-20	Frontage - US
Pioglitazone	Human Plasma	0.500 ng/mL	0.500 - 2000 ng/mL	50 µL	K2EDTA	LC/MS/MS	-20/-70	Frontage - US
Pioglitazone/Hydroxyl Pioglitazone	Human Plasma	2/1 ng/mL	2/1-2000/1000 ng/mL	50 µL	Lithium Heparin	LC/MS/MS	-70	Frontage - SH
Piroxicam	Human Plasma	0.25 ng/mL	0.25-500 ng/mL	50 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Pitavastatin and Pitavastatin Lactone	Human Plasma	0.1 ng/mL	0.1 to 100 ng/mL	100 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Pomalidomide	Human Plasma	0.1 ng/mL	0.1-100 ng/mL	200 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Pregabalin	Human Plasma/Serum	50 ng/mL and 500 ng/mL	50-50000 ng/mL and 500-50000 ng/mL	50 µL	K2EDTA/K3EDTA	LC/MS/MS	-20	Frontage - US
Primidone	Human Plasma/Serum	10 ng/mL	10-10000 ng/mL	50 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Prochlorperazine	Human Plasma	0.01 ng/mL	0.01-10 ng/mL	300 µL	K2EDTA	LC/MS/MS	-70	Frontage - US
Propranolol / 4-hydroxypropranolol	Human Plasma	2/1 ng/mL	2/1-600/300 ng/mL	400 µL	K3EDTA	LC/MS/MS	-70	Frontage - US
Pseudoephedrine	Human Plasma	1 ng/mL	1-1000 ng/mL	100 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Q								
Quetiapine	Human Plasma	1 ng/mL	1-2000 ng/mL	50 µL	K2EDTA	LC/MS/MS	-70	Frontage - SH
Quinapril and Quinaprilat	Human Plasma	1/2 ng/mL	1/2 - 750/1500 ng/mL	50 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Quinidine	Human Plasma	20 ng/mL	20-10000 ng/mL	50 µL	K2EDTA	LC/MS/MS	-70	Frontage - US
Quinine	Human Plasma	25 ng/mL	25-10000 ng/mL	50 µL	K2EDTA/K3EDTA	LC/MS/MS	-20	Frontage - US
Quinine/3 Hydroxy Quinine	Supernatant of Human Plasma	2.5/2.5 ng/mL	2.5/2.5-1000/1000 ng/mL	50 µL	K2EDTA/K3EDTA	LC/MS/MS	-20	Frontage - US
Quinine/3 Hydroxy Quinine	Human Urine	0.25/0.25 µg/mL	0.25/0.25-50/50 µg/mL	100 µL	NA	LC/MS/MS	-20	Frontage - US
Quinine/3-Hydroxy Quinine	Human Plasma	25/25 ng/mL	25/25-10000/10000 ng/mL	50 µL	K2EDTA/K3EDTA	LC/MS/MS	-20	Frontage - US
R								
Ramipril/Ramiprilat	Human Plasma	0.5/0.5 ng/mL	0.5/0.5-250/250 ng/mL	200 µL	K2EDTA	LC/MS/MS	-20	Frontage - US

Ranolazine	Human Plasma	2 ng/mL	2-2000 ng/mL	50 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Regorafenib/M2/M5	Human Plasma	10 ng/mL	10-5000 ng/mL	25 µL	K2EDTA	LC/MS/MS	-20/-70	Frontage - US
Rifampin	Human Plasma	100 ng/mL	100 - 10000 ng/mL	20 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Riluzole	Human Serum	1 ng/mL	1-500 ng/mL	100 µL	NA	LC/MS/MS	-20	Frontage - US
Risperidone	Human Plasma	0.2 ng/mL	0.2-50 ng/mL	200 µL	K2EDTA/heparin	LC/MS/MS	-20	Frontage - SH
Risperidone/Paliperidone (9-Hydroxyrisperidone)	Human Plasma	0.1/0.2 ng/mL	0.1/0.2-50/100 ng/mL	50 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Ritonavir	Human Plasma	25 ng/mL	25-10000 ng/mL	50 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Rizatriptan	Human Plasma	0.1 ng/mL	0.1-50 ng/mL	50 µL	K2EDTA	LC/MS/MS	-70	Frontage - SH
Ropinirole	Human Plasma	5 pg/mL	5-2000 pg/mL	200 µL	K2EDTA	LC/MS/MS	-70	Frontage - SH
Rofecoxib	Human Plasma	10 ng/mL	10-1000 ng/mL	200 µL	K3EDTA	LC/MS/MS	-20	Frontage - US
Ropivacaine	Human Plasma	1 ng/mL	1- 1000 ng/mL	100 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Rosiglitazone	Human Plasma	20 ng/mL	20-8000 ng/mL	200 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Rosiglitazone / N-Desmethyl Rosiglitazone	Human Plasma	0.5/1 ng/mL	0.5/1-500/1000 ng/mL	200 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Rosuvastatin	Human Plasma	0.1 ng/mL	0.1 - 100 ng/mL	100 µL	K2EDTA	LC/MS/MS	-70	Frontage - US
Rufinamide	Human Plasma	20 ng/mL	20-20000 ng/mL	200 µL	K3EDTA	LC/MS/MS	-20	Frontage - US
Ruxolitinib	Human Plasma	0.3 ng/mL	0.3-300 ng/mL	30 µL	K2EDTA	LC/MS/MS	-20/-70	Frontage - US

S								
Salicylic Acid	Human Plasma	0.1 ng/mL	0.1-100 ng/mL	20 µL	Sodium Heparin	LC/MS/MS	-20	Frontage - US
Salicylic Acid/Acetylsalicylic acid	Human Plasma	50/20 ng/mL	50,000/10,000 ng/mL	50 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Salmon Calcitonin	Human Serum	9 pg/mL	0-400 pg/mL	200 µL	NA	ELISA	-70	Frontage - US
Sertraline	Human Plasma	0.5 ng/mL	0.5-200 ng/mL	200 µL	K3EDTA	LC/MS/MS	-20	Frontage - US
Simvastatin / Simvastatin Acid	Human Plasma	0.1 ng/mL	0.1-20 ng/mL	100 µL	Sodium Heparin	LC/MS/MS	-20	Frontage - SH
Sorafenib	Human Plasma	10 ng/mL	10-10000 ng/mL	25 µL	K2EDTA	LC/MS/MS	-20/-70	Frontage - US
Sotalol	Human Plasma	5 ng/mL	5-3000 ng/mL	200 µL	K3EDTA	LC/MS/MS	-20	Frontage - US
Sphingosine	Human Urine	1 ng/mL	1-1000 ng/mL	50 µL	NA	LC/MS/MS	-70	Frontage - US
Sphingosine/Sphingosine-1-phosphate	Human Urine	1/1 ng/mL	1/1-1000/1000 ng/mL	50 µL	NA	LCMSMS	-20	Frontage - US
Sufentanil	Human Plasma	1 pg/mL	1-1000 pg/mL	200 µL	K2EDTA	LC/MS/MS	-70	Frontage - US
Sumatriptan	Human Urine	100 ng/mL	100-20000 ng/mL	20 µL	NA	LC/MS/MS	-20	Frontage - US

T								
Tamsulosin	Human Plasma	0.2 ng/mL	0.2-40 ng/mL	100 µL	EDTA	LC/MS/MS	-20	Frontage - US
Terazosin	Human Plasma	1 ng/mL	1-1000 ng/mL	100 µL	Sodium Heparin	LC/MS/MS	-20	Frontage - US
Terbinafine/N-Desmethylcarboxy Terbinafine	Human Urine	0.1/0.1 ng/mL	0.1/0.1-50/50 ng/mL	400 µL	NA	LC/MS/MS	-70	Frontage - US
Terbinafine	Human Plasma	0.1 ng/mL	0.1-50 ng/mL	100 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Testosterone	Human Plasma/Serum	0.1 ng/mL	0.1-50 ng/mL	200 µL	K3EDTA	LC/MS/MS	-20	Frontage - US
Tetracycline	Human Plasma	5 ng/mL	5-500 ng/mL	200 µL	K3EDTA	LC/MS/MS	-20	Frontage - US
Thalidomide	Human Plasma	50 ng/mL	50-3000 ng/mL	50 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Theophylline	Human Plasma	0.1 µg/mL	0.1-40 µg/mL	50 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Thiodione	Human Plasma	1 ng/mL	1-500 ng/mL	100 µL	K2EDTA	LC/MS/MS	-70	Frontage - US
Tiagabine	Human Plasma/Serum	1 ng/mL	1-1000 ng/mL	50 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Timolol	Human Plasma	0.02 ng/mL and 5 ng/mL	0.02-10 ng/mL and 5-2000 ng/mL	30 µL and 200 µL	K2EDTA/K3EDTA	LC/MS/MS	-20	Frontage - US
Tizanidine	Human Plasma	0.1 ng/mL	0.1-100 ng/mL	200 µL	K3EDTA	LC/MS/MS	-20	Frontage - US
Tolbutamide	Human Plasma	2 ng/mL, 30 ng/mL, 50 ng/mL	2-2000 ng/mL, 30-30000 ng/mL, 50-50000 ng/mL	50 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Tolbutamide/Omeprazole/Midazolam	Human Plasma	50/1/0.1 ng/mL	50/1/0.1-50000/1000/100 ng/mL	20 µL	EDTA	LC/MS/MS	-20	Frontage - US
Tolvaptan	Human Plasma	1 ng/mL	1-500 ng/mL	50 µL	K2EDTA	LC/MS/MS	-70	Frontage - SH
Topiramate	Human Plasma/Serum	1 ng/mL and 50 ng/mL	1-1000 ng/mL and 50-5000 ng/mL	50 µL	K2EDTA/K3EDTA	LC/MS/MS	-20	Frontage - US
Tramadol	Human Plasma	0.5 ng/mL	0.5-300 ng/mL	200 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Triamterene	Human Plasma	2 ng/mL	2-500 ng/mL	200 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Triazolam	Human Plasma	0.1 ng/mL	0.1-50 ng/mL	100 µL	EDTA	LC/MS/MS	-20	Frontage - US
Triethyleneteramine (inc. metabolites)	Human Plasma	5 ng/mL	5-500 ng/mL	200 µL	Lithium heparin	LC/MS/MS	-70	Frontage - US
Trimethobenzamide	Human Plasma	5 ng/mL	5-2000 ng/mL	200 µL	K3EDTA	LC/MS/MS	-20	Frontage - US

U
V

Vancomycin	Human Plasma	50 ng/mL	50-25000 ng/mL	30 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Valproic Acid	Human Plasma/Serum	1 µg/mL and 1000 ng/mL	1-200 µg/mL and 1000-50000 ng/mL	50 µL	K2EDTA/K3EDTA	LC/MS/MS	-20	Frontage - US
Valsartan	Human Plasma	5 ng/mL	5-5000 ng/mL	50 µL	K2EDTA	LC/MS/MS	-20	Frontage - SH
Vemurafenib	Human Plasma	25 ng/mL	25-25000 ng/mL	50 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Venlafaxine	Human Plasma	1 ng/mL	1-500 ng/mL	100 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Verapamil	Human Plasma	1 ng/mL	1-500 ng/mL	25 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Vigabatrin	Human Plasma/Serum	10 ng/mL	10-10000 ng/mL	50 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Vincristine	Human Plasma	0.1 ng/mL, 0.25 ng/mL	0.1 - 50 ng/mL, 0.25-400 ng/mL	100 µL, 200 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Voriconazole	Human Plasma	5 ng/mL	5-2000 ng/mL	50 µL	K2EDTA	LC/MS/MS	-70	Frontage - SH
W - X - Y - Z								
(S)-Warfarin/(R)-Warfarin	Human Plasma	5/5 ng/mL	5/5-1500/1500 ng/mL	100 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Zidovudine	Human Plasma	3 ng/mL	3-3000 ng/mL	100 µL	EDTA	LC/MS/MS	-20	Frontage - US
Zolpidem	Human Plasma	1 ng/mL	1-300 ng/mL	200 µL	K2EDTA	LC/MS/MS	-20	Frontage - US
Zolpidem (inc. metabolites)	Human Plasma	1 ng/mL (0.2 ng/mL for metabolites)	1/1/0.2/0.2/0.2-300/300/600/600/600 ng/mL	200 µL	K2EDTA	LC/MS/MS	-70	Frontage - US
Zonisamide	Human Plasma/Serum	50 ng/mL	50-5000 ng/mL, 50-10000 ng/mL	50 µL	K2EDTA/K3EDTA	LC/MS/MS	-20	Frontage - US

Frontage Laboratories has also developed and validated many proprietary bioanalytical methods for clients. Please inquire for any methods not listed, and we will prepare a customized quotation and project schedule that meets your needs.