



LIST OF VALIDATED METHODS JUNE 2010

Compound (Metabolite)	Matrix	Calibration Range	Method	Sample Volume	Anti-Coagulant	Storage Temp ° C	Lab Site	Method Status*	Method I.D.
6-Methoxy-2-Naphthylacetic acid <i>aka Nabumetone metabolite</i>	Human Plasma	0.5-100 µg/mL	HPLC/FL	0.05 mL	EDTA	-20	Richmond	Inactive	LC184
3-Hydroxymandelic Acid	Human Urine	100-5000 ng/mL	LC/MS/MS	0.05 mL	None	-70	Madison	Active	P957.00
Acetaminophen Acetaminophen (Acetaminophen sulfate) (p-Acetamidophenyl-β-D-glucuronide)	Human Plasma	0.025-10 µg/mL	HPLC/UV	0.5 mL	Sodium Heparin	-20	Richmond	Active	LC12.1
	Human Urine	0.5-250 µg/mL	HPLC/UV	0.2 mL	None	-20	Richmond	Inactive	LC12.3
	Human Plasma	0.2-50 µg/mL	HPLC/UV	0.5 mL	Sodium Heparin	-20	Madison	Active	P089.03
	Human Plasma	0.2-50 µg/mL	HPLC/UV	0.1 mL	EDTA	-20	Madison	Active	P829.00
	Dog Plasma	0.2-100 µg/mL	HPLC/UV	0.3 mL	Sodium Heparin	-20	Madison	Active	P363.00
	Human Urine	0.2-200 µg/mL 0.5-500 µg/mL 1-1,000 µg/mL	LC/MS/MS	0.025 mL	None	-20	Madison	Active	P851.00
	Human Plasma	0.1-50 µg/mL 0.1-50 µg/mL 0.5-100 µg/mL	LC/MS/MS	0.05 mL	K ₂ EDTA	-20	Madison	Active	P852.00
Acyclovir	Human Plasma	5-1,000 ng/mL	HPLC/UV	0.5 mL	Sodium Heparin	-20	Richmond	Inactive	LC189
Adiponectin	Human Serum	185-23,695 ng/mL	ELISA	0.01 mL	None	-70	Richmond	Active	ICD287
Albendazole (Sulfoxide & Sulfone Metabolites)	Bovine Plasma	0.05-5 µg/mL 0.05-5 µg/mL	HPLC/UV	0.5 mL	Sodium Heparin	-20	Madison	Active	P562.02

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Albuterol	Human Plasma	0.20-20 ng/mL	LC/MS/MS	1.0 mL	Sodium Heparin	-20	Madison	Active	P478.01
	Human Plasma	2-4,000 pg/mL	LC/MS/MS	0.5 mL	Sodium Heparin	-20	Madison	Active	P951.00
	Human Urine	20-2,000 ng/mL	LC/MS/MS	0.1 mL	None	-20	Madison	Active	P465.01
	Dog Plasma	0.2-20 ng/mL	LC/MS/MS	1.0 mL	Sodium Heparin	-20	Madison	Active	P464.01
	Rat Plasma	0.4-400 ng/mL	LC/MS/MS	0.25 mL	Sodium Heparin	-20	Madison	Inactive	P463.00
Alprazolam	Human Plasma	0.25-40 ng/mL	LC/MS/MS	0.5 mL	Sodium Heparin	-20	Richmond	Active	LCMS225
Alprazolam (α -Hydroxyalprazolam) (4-Hydroxyalprazolam)	Human Plasma	0.2-40 ng/mL 0.2-40 ng/mL 0.2-40 ng/mL	LC/MS/MS	0.3 mL	Sodium Heparin	-20	Madison	Active	P335.06
Ambrisentan (4-Hydroxymethyl Ambrisentan)	Human Plasma	1-400 ng/mL 0.25 -100 ng/mL	LC/MS/MS	0.1 mL	Sodium Citrate	-20	Richmond	Active	LCMSC498
	Human Plasma	1-500 ng/mL 0.25-125 ng/mL	LC/MS/MS	0.1 mL	K₂EDTA	-20	Richmond	Active	LCMSC498.1
Amitriptyline (Nortriptyline)	Human Plasma	0.5-200 ng/mL 0.5-200 ng/mL	LC/MS/MS	0.25 mL	Sodium Heparin	-20	Madison	Active	P558.01
	Rabbit Plasma	1-500 ng/mL 1-500 ng/mL	LC/MS/MS	0.1 mL	Sodium Heparin	-20	Madison	Active	P647.00
Amitriptyline	Human Plasma	0.5-200 ng/mL	LC/MS/MS	0.25 mL	Sodium Heparin	-20	Richmond	Active	LCMS301

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Amlodipine	Human Plasma	0.1-50 ng/mL	LC/MS/MS	0.2 mL	Sodium Heparin	-20	Richmond	Active	LCMS151
Amoxicillin	Human Serum	50-25,000 ng/ml	LC/MS/MS	0.1 mL	None	-70	Richmond	Active	LCMS141
	Human Plasma	50-25,000 ng/ml	LC/MS/MS	0.1 mL	K ₃ EDTA	-70	Richmond	Active	LCMS141.2
Atazanavir & Ritonavir	Human Plasma	10-10,000 ng/mL	LC/MS/MS	0.05 mL	K₃EDTA	-20	Madison	Active	P1012
Atenolol	Human Whole Blood	10-1,000 ng/mL	HPLC/FL	1.0 mL	Sodium Heparin	-20	Madison	Inactive	P161.01
Aripiprazole (Dehydroaripiprazole)	Human Plasma	0.5-250 ng/mL 0.1-50 ng/mL	LC/MS/MS	0.25 mL	K ₂ EDTA	-20	Richmond	Active	LCMS 386
Atovaquone	Human Plasma	0.025-10 µg/mL	LC/MS/MS	0.1 mL	K ₂ EDTA	-20	Richmond	Active	LCMS360
Atorvastatin (Ortho-hydroxy atorvastatin) (Para-hydroxy atorvastatin)	Human Plasma	0.1-75 ng/mL 0.1-75 ng/mL 0.1-75 ng/mL	LC/MS/MS	0.1 mL	Sodium Heparin	-70	Richmond	Active	LCMS120
	Human Plasma	0.1-75 ng/mL 0.1-75 ng/mL 0.1-75 ng/mL	LC/MS/MS	0.1 mL	Sodium Heparin	-70	Madison	Active	P913.00
	Rat Plasma	0.1-75 ng/mL 0.1-75 ng/mL 0.1-75 ng/mL	LC/MS/MS	0.1 mL	Sodium Heparin	-70	Richmond	Active	LCMS120.3
Avastin <i>aka</i> Bevacizumab	Human Serum	10-2,560 ng/mL	MSD-ECL	0.025 mL	None	-70	Richmond	Active	ICD343
Azithromycin	Human Plasma	2.5-1,000 ng/mL	LC/MS/MS	0.1 mL	K ₃ EDTA	-20	Richmond	Inactive	LCMS168

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Azidothymidine (AZT)	Human Plasma	50-25,000 ng/mL	HPLC/UV	0.25 mL	Sodium Heparin	-20	Richmond	Inactive	LC96
	Human Urine	0.2-25 µg/mL	HPLC/UV	1.0 mL	None	-20	Richmond	Inactive	LC96.1
Beclomethasone (Beclomethasone-17-propionate) (Beclomethasone dipropionate)	Human Plasma	1-250 pg/mL 1-250 pg/mL 1-250 pg/mL	LC/MS/MS	1.0 mL	Potassium Oxalate/Sodium Fluoride	-70	Richmond	Active	LCMSC333
Benazepril (Benazeprilat)	Human Plasma	10-1,000 ng/mL 10-1,000 ng/mL	LC/MS/MS	0.05 mL	Na ₂ EDTA	-20	Richmond	Active	LCMS107
Bicalutamide	Human Plasma	10-1,250 ng/mL	LC/MS/MS	0.05 mL	K ₃ EDTA	-20	Richmond	Active	LCMS318
Bisoprolol	Human Plasma	0.5-200 ng/mL	LC/MS/MS	0.1 mL	Sodium Heparin	-20	Richmond	Active	LCMSB501
Bortezomib	Human Plasma	0.5-500 ng/mL	LC/MS/MS	0.1 mL	Sodium Heparin	-70	Richmond	Active	LCMS509
Brompheniramine	Human Plasma	0.05-20 ng/mL	LC/MS/MS	0.1 mL	Lithium Heparin	-20	Richmond	Active	LCMSC436
Budesonide	Human Plasma	10-2,500 pg/mL	LC/MS/MS	0.25 mL	K ₃ EDTA	-20	Madison	Active	P429.00
Buprenorphine (Norbuprenorphine) & Naloxone	Human Plasma	50-10,000 pg/mL 50-10,000 pg/mL 5-500 pg/mL	LC/MS/MS	0.5 mL	K ₃ EDTA	-20	Madison	Active	P942.01
Bupropion (Hydroxybupropion) (Erythrohydroxybupropion) (Threoxyhydroxybupropion)	Human Plasma	0.5-200 ng/mL 1-400 ng/mL 1-400 ng/mL 1-400 ng/mL	LC/MS/MS	0.1 mL	K ₂ EDTA	-70	Madison	Active	P986.00

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Butalbital	Human Plasma	0.05-25 µg/mL	HPLC/UV	0.25 mL	Sodium Heparin	-20	Richmond	Active	LC196
	Human Plasma	0.1-10 µg/mL	HPLC/UV	0.5 mL	Sodium Heparin	-20	Madison	Inactive	P301.00
Caffeine (1,7-Dimethylxanthine)	Human Plasma	20-20,000 ng/mL 20-20,000 ng/mL	LC/MS/MS	0.15 mL	Sodium Heparin	-20	Richmond	Active	LCMSC207
	Human Urine	1-50 µg/mL 1-50 µg/mL	HPLC/UV	0.1 mL	None	-20	Madison	Active	P590.02
	Human Plasma	25-25,000 ng/mL 25-25,000 ng/mL	HPLC/UV	0.25 mL	Sodium Heparin	-20	Madison	Active	P589.02
	Human Plasma	25-25,000 ng/mL 25-25,000 ng/mL	LC/MS/MS	0.05 mL	Sodium Heparin	-20	Madison	Active	P734.03
	Human Urine	50-50,000 ng/mL 50-50,000 ng/mL	LC/MS/MS	0.025 mL	None	-20	Madison	Active	P739.03
Candesartan	Human Plasma	0.5-400 ng/mL	LC/MS/MS	0.1 mL	K ₂ EDTA	-20	Richmond	Active	LCMSC451
	Human Urine	10-5,000 ng/mL	LC/MS/MS	0.05 mL	None	-20	Richmond	Active	LCMSC451.1
Carbidopa & Levodopa	Human Plasma	0.5-250 ng/mL 5-2,500 ng/mL	LC/MS/MS	0.2 mL	K ₃ EDTA	-70	Madison	Active	P838.00
Carbidopa (3-O-MethylDopa) & Levodopa	Human Plasma	0.5-250 ng/mL 25-25,000 ng/mL 10-5,000 ng/mL	LC/MS/MS	0.2 mL	K ₃ EDTA	-70	Madison	Active	P959.00

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Carbamazepine (Carbamazepine 10,11 Epoxide)	Human Plasma	0.05-20 µg/mL 0.05-20 µg/mL	HPLC/UV	0.5 mL	Sodium Heparin	-20	Madison	Active	P239.03
	Human Plasma	0.05-50 µg/mL 0.05-50 µg/mL	LC/MS/MS	0.05 mL	Sodium Heparin	-20	Madison	Active	P626.00
Carbamazepine, Free (unbound) (Carbamazepine 10,11 Epoxide) (Carbamazepine 10,11 Epoxide) (Monohydroxycarbazepine)	Human Plasma Ultrafiltrate	0.1-20 µg/mL 0.1-20 µg/mL	HPLC/UV	0.25 mL	Sodium Heparin	-20	Madison	Inactive	P238.02
	Human Urine	0.1-20 µg/mL	HPLC/UV	0.25 mL	None	-20	Madison	Inactive	P257.01
	Human Plasma	1-50 µg/mL	LC/MS/MS	0.05 mL	Sodium Heparin	-70	Madison	Active	P886.00
Carvedilol	Human Plasma	0.1-50 ng/mL	LC/MS/MS	0.2 mL	Sodium Heparin	-20	Madison	Active	P789.01
Cefaclor	Human Plasma	0.1-25 µg/mL	HPLC/UV	0.5 mL	Sodium Heparin	-70	Richmond	Active	LC305
Cefadroxil	Human Serum	0.25-50 µg/mL	HPLC/UV	0.10 mL	None	-70	Richmond	Inactive	LC52
	Human Urine	5-1,000 µg/mL	HPLC/UV	0.05 mL	None	-20	Richmond	Inactive	LC52.1
Celecoxib	Human Plasma	5-2,000 ng/mL	LC/MS/MS	0.05 mL	Sodium Heparin	-20	Richmond	Active	LCMSD417
Celiprolol	Human Plasma	10-2,000 ng/mL	HPLC/UV	1.0 mL	Sodium Heparin	-20	Richmond	Inactive	LC30
Cephalexin	Human Plasma	0.1-100 µg/mL	LC/MS/MS	0.05 mL	K ₃ EDTA	-20	Richmond	Active	LCMSB382
Cetirizine	Human Plasma	0.5-500 ng/mL	LC/MS/MS	0.05 mL	K ₃ EDTA	-20	Richmond	Active	LCMSB169

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Chlorpheniramine	Human Plasma	0.25-50 ng/mL	LC/MS/MS	0.05 mL	Sodium Heparin	-20	Richmond	Active	LCMS214
Chlorthalidone	Human Plasma	2-1,000 ng/mL	LC/MS/MS	0.25 mL	Sodium Heparin	-20	Richmond	Active	LCMS389.2
	Human Urine	10-5,000 ng/mL	LC/MS/MS	0.1 mL	None	-20	Richmond	Active	LCMS389.1
Chlorzoxazone (6-Hydroxychlorzoxazone)	Human Plasma	5-5,000 ng/mL 5-5,000 ng/mL	LC/MS/MS	0.05 mL	Sodium Heparin	-20	Richmond	Active	LCMS209
Cimetidine	Human Urine	5.0-5,000 µg/mL	HPLC/UV	0.05 mL	None	-20	Richmond	Active	LC358.1
	Human Plasma	0.01-10 µg/mL	HPLC/UV	0.5 mL	Sodium Heparin	-20	Richmond	Active	LC358
Ciprofloxacin	Human Plasma	25-10,000 ng/mL	LC/MS/MS	0.05 mL	K ₃ EDTA	-20	Richmond	Active	LCMS176
Citalopram	Human Plasma	1-500 ng/mL	LC/MS/MS	0.2 mL	Sodium Heparin	-20	Richmond	Active	LCMS332
Citalopram (Desmethylcitalopram)	Human Plasma	1-500 ng/mL 0.2-100 ng/mL	LC/MS/MS	0.2 mL	Sodium Heparin	-20	Madison	Active	P787.00
Clarithromycin (14-Hydroxyclearithromycin)	Human Plasma	20-10,000 ng/mL 5-2,500 ng/mL	LC/MS/MS	0.1 mL	Sodium Heparin	-20	Richmond	Active	LCMSB179
Clavulanic Acid	Feline Plasma	0.1-10 µg/mL	LC/MS/MS	0.2 mL	Sodium Heparin	-80	Madison	Active	P997.00
	Canine Plasma	0.1-10 µg/mL	LC/MS/MS	0.2 mL	Sodium Heparin	-70	Madison	Active	P990.00
Clopidogrel (Clopidogrel Acid)	Human Plasma	0.2-200 ng/mL 10-10,000 ng/mL	LC/MS/MS	0.1 mL	K ₃ EDTA	-20	Richmond	Active	LCMS271
Clorsulon	Bovine Plasma	0.1-10 ng/mL	LC/MS/MS	1.0 mL	Sodium Heparin	-20	Madison	Active	P717.00

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Cocktail Assay, "Epilepsy" Carbamazepine Lamotrigine Phenobarbital Phenytoin Topiramate	Human Plasma	0.1-50 µg/mL 0.1-20 µg/mL 0.1-50 µg/mL 0.1-30 µg/mL 0.1-50 µg/mL	LC/MS/MS	0.1 mL	Sodium Heparin	-20	Madison	Active	P837.00
Cocktail Assay, "Antiviral" Darunavir Lopinavir Raltegravir Ritonavir	Human Plasma	10-10,000 ng/mL	LC/MS/MS	0.1 mL	K ₃ EDTA	-20	Madison	Active	P1002.01
Codeine	Human Plasma	0.1-100 ng/mL	LC/MS/MS	0.25 mL	Sodium Heparin	-20	Madison	Active	P753.01
Codeine & Morphine (Morphine-3-β-glucuronide) (Morphine-6-β-glucuronide)	Human Plasma	1-100 ng/mL 0.2-20 ng/mL 2-200 ng/mL 0.5-50 ng/mL	LC/MS/MS	0.25 mL	Sodium Heparin	-20	Richmond	Active	LCMSC396
Codeine & Morphine & Guafenesin	Human Plasma	0.1-100 ng/mL 0.2-20 ng/mL 2-2,000 ng/mL	LC/MS/MS	0.3 mL	Sodium Heparin	-20	Madison	Active	P919.02
Cortisol (6β-Hydroxycortisol)	Human Urine	1-200 ng/mL 6-1,200 ng/mL	LC/MS/MS	0.1 mL	None	-20	Richmond	Active	LCMSC355
Cortisol <i>aka hydrocortisone</i> Cortisone	Human Urine	1-250 ng/mL 1-250 ng/mL	LC/MS/MS	0.05 mL	None Requires CHAPS	-70	Richmond	Active	LCMSC472

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Cortisol <i>aka hydrocortisone</i> Cortisone	Human Serum	1-500 ng/mL 0.5-250 ng/mL	LC/MS/MS	0.05 mL	None	-70	Richmond	Active	LCMSD472.1
5- α -Tetrahydrocortisol (5- α -THF) 5- β -Tetrahydrocortisol (5- β -THF) Tetrahydrocortisone (THE)	Human Urine	20-5,000 ng/mL 20-5,000 ng/mL 20-5,000 ng/mL	LC/MS/MS	0.05 mL	None Requires CHAPS	-70	Richmond	Active	LCMSC471
Cyclophosphamide	Human Plasma	0.25–50 μ g/mL	HPLC/UV	0.25 mL	Sodium Heparin	-20	Richmond	Active	LC232
D4T	Human Plasma	0.025-25 μ g/mL	HPLC/UV	0.5 mL	Sodium Heparin	-20	Richmond	Inactive	LC211
Danazol	Human Plasma	2-200 ng/mL	HPLC/UV	1.0 mL	Sodium Heparin	-20	Richmond	Inactive	LC18
Darunavir See "Cocktail Assay Antiviral"	Human Plasma	10-10,000 ng/mL	LC/MS/MS	0.1 mL	K ₃ EDTA	-20	Madison	Active	P1002.00
Daunorubicin (Daunorubicinol)	Human Plasma	5-200 ng/mL 5-200 ng/mL	HPLC/FL	0.5 mL	Sodium Heparin	-20	Richmond	Inactive	LC301
Desipramine (2-Hydroxydesipramine)	Human Plasma	0.25-100 ng/mL 0.25-100 ng/mL	LC/MS/MS	0.1 mL	Sodium Heparin	-20	Richmond	Active	LCMS103
	Human Plasma	0.25-100 ng/mL 0.25-100 ng/mL	LC/MS/MS	0.1 mL	Sodium Heparin	-20	Madison	Active	P644.01
Dexamethasone	Human Plasma	0.5-500 ng/mL	LC/MS/MS	0.2 mL	K ₂ EDTA	-20	Richmond	Active	LCMS328
Dexlansoprazole	Human Plasma	5-5,000 ng/mL	LC/MS/MS	0.05 mL	K₂EDTA	-20	Madison	Active	P1026
Dextromethorphan	Human Plasma	10 -5,000 pg/mL	LC/MS/MS	0.5 mL	Sodium Heparin	-20	Madison	Active	P732.01

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Dextromethorphan (Dextrophan)	Dog Plasma	2.5-500 ng/mL 2.5-500 ng/mL	HPLC/FL	0.2 mL	Sodium Heparin	-20	Madison	Active	P423.00
	Rat Plasma	5-1,000 ng/mL 5-1,000 ng/mL	HPLC/FL	0.1 mL	Sodium Heparin	-20	Madison	Inactive	P422.00
	Human Plasma	0.05- 50 ng/mL 0.8-800 ng/mL	LC/MS/MS	0.1 mL	Sodium Heparin	-20	Madison	Active	P668.05
Dextromethorphan, Total** & Unconjugated (Dextrophan) (3-methoxymorphinan) (3-hydroxymorphinan)	Human Urine	0.001-1.0 µg/mL 0.020-20 µg/mL 0.001-1.00 µg/mL 0.01-10.0 µg/mL	LC/MS/MS	0.05 mL	None	-20	Madison	Active	P600.07
Dextromethorphan & Pseudoephedrine	Human Plasma	10-5,000 pg/mL 0.8-400 ng/mL	LC/MS/MS	0.5 mL	Sodium Heparin	-20	Madison	Active	P617.02
Diazepam (N-Desmethyldiazepam)	Human Plasma	2-1,000 ng/mL 1-500 ng/mL	LC/MS/MS	0.05 mL	K ₂ EDTA	-20	Richmond	Active	LCMS 466
Diclofenac	Human Plasma	0.1-100 ng/mL	LC/MS/MS	0.25 mL	Sodium Heparin	-20	Richmond	Active	LCMSC368
Diclofenac (4'-hydroxydiclofenac)	Human Plasma	10-2,000 ng/mL 2.5-500 ng/mL	LC/MS/MS	0.2 mL	Sodium Heparin	-20	Richmond	Active	LCMSB368.1
Digoxin	Human Plasma	0.15-8 ng/mL	RIA	0.2 mL	Sodium Heparin	-70	Richmond	Active	ICD11.1
	Human Serum	0.15-8 ng/mL	RIA	0.1 mL	None	-70	Richmond	Active	ICD11.3
	Human Urine	1-40 ng/mL	RIA	0.1 mL	None	-70	Richmond	Active	ICD11.2

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Digoxin	Human Plasma	0.1-4 ng/mL	RIA	0.4 mL	EDTA	-70	Richmond	Active	ICD11.5
	Human Plasma	0.1-50 ng/mL	LC/MS/MS	0.1 mL	K ₂ EDTA	-20	Richmond	Active	LCMSC455.1
	Human Plasma	0.05-50 ng/mL	LC/MS/MS	0.1 mL	K₂EDTA	-20	Richmond	Active	LCMSD455.2
Diltiazem (Desacetyldiltiazem) (Desmethyldiltiazem)	Human Plasma	0.1-200 ng/mL 0.1-200 ng/mL 0.1-200 ng/mL	LC/MS/MS	0.4 mL	Sodium Heparin	-20	Madison	Active	P672.03
Docetaxel	Human Plasma	10-5,000 ng/mL	LC/MS/MS	0.1 mL	Sodium Heparin	-20	Richmond	Active	LCMSB216
Donepezil	Human Plasma	0.2-50 ng/mL	LC/MS/MS	0.2 mL	Sodium Heparin	-20	Richmond	Active	LCMSB203
	Human Plasma	0.2-100 ng/mL	LC/MS/MS	0.1 mL	Sodium Heparin	-20	Madison	Active	P983.00
Doxazosin	Human Plasma	0.05-50 ng/mL	HPLC/FL	1.0 mL	Sodium Heparin	-20	Richmond	Inactive	LC266
Doxepin (Desmethyldoxepin)	Human Plasma	0.5-250 ng/mL 0.5-250 ng/mL	LC/MS/MS	0.1 mL	Sodium Heparin	-20	Madison	Active	P815.01
Doxorubicin	Human Plasma	1-200 ng/mL	HPLC/FL	0.5 mL	Sodium Heparin	-70	Richmond	Inactive	LC252
Duloxetine	Human Plasma	0.2-200 ng/mL	LC/MS/MS	0.5 mL	K ₂ EDTA	-20	Madison	Active	P882.00
Efavirenz	Human Plasma	0.10-10 µg/mL	LC/MS/MS	0.1 mL	K₂EDTA	-20	Richmond	Active	LCMSB517
	Human Whole Blood	0.10-25 µg/mL	DBS by LC/MS/MS	0.1 to 0.3 mL	K₂EDTA	Room Temp	Richmond	Active	LCMS517.1
Emtricitabine & Tenofovir	Human Plasma	20-4,000 ng/mL 5-1,000 ng/mL	LC/MS/MS	0.05 mL	K ₂ EDTA	-20	Richmond	Active	LCMSC 468

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LIST OF VALIDATED METHODS JUNE 2010

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Emtricitabine & Tenofovir	Human Plasma	5-1,000 ng/mL 20-4,000 ng/mL	LC/MS/MS	0.05 mL	K ₂ EDTA	-20	Madison	Active	P947.01
Enalapril (Enalaprilat)	Human Plasma	0.25-100 ng/mL 0.25-100 ng/mL	LC/MS/MS	0.25 mL	Sodium Heparin	-20	Madison	Active	P435.00
	Human Plasma	0.5-250 ng/mL 0.5-250 ng/mL	LC/MS/MS	0.05 mL	Sodium Heparin	-20	Richmond	Inactive	LCMS31
	Dog Plasma	0.25-400 ng/mL 0.25-400 ng/mL	LC/MS/MS	0.25 mL	Sodium Heparin	-20	Madison	Active	P532.01
Epinephrine	Human Plasma	0.05-8 ng/mL	HPLC/FL	1.0 mL	Sodium Metabisulfite	-20	Madison	Active	P981.02
Erlotinib	Human Plasma	10-10,000 ng/mL	LC/MS/MS	0.05 mL	Sodium Heparin	-20	Richmond	Active	LCMSC390
	Human Plasma	10-10,000 ng/mL	LC/MS/MS	0.025 mL	Sodium Heparin	-20	Madison	Active	P1008.01
	Human Plasma	5-5,000 ng/mL	LC/MS/MS	0.025 mL	Sodium Heparin	-20	Madison	Active	P1016
Erythromycin	Human Plasma	0.2-20 µg/mL	LC/MS/MS	0.05 mL	K ₂ EDTA	-20	Richmond	Active	LCMS463
Estazolam	Human Plasma	0.1-30 ng/mL	LC/MS/MS	1.0 mL	Sodium Heparin	-20	Madison	Inactive	P336.00
β-Estradiol & Equilin & Estrone	Human Plasma	5.0-500 pg/mL 5.0-500 pg/mL 5.0-500 pg/mL	LC/MS/MS	0.5 mL	Sodium Heparin	-70	Richmond	Active	LCMSC233

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β-Estradiol & Equilin & Estrone	Human Plasma	1.0-100 pg/mL 5.0-500 pg/mL 5.0-500 pg/mL	LC/MS/MS	0.5 mL	K ₃ EDTA	-70	Richmond	Active	LCMSC350
	Human Serum	1.0-100 pg/mL 5.0-500 pg/mL 5.0-500 pg/mL	LC/MS/MS	0.5 mL	None	-70	Richmond	Active	LCMSC350.1
β-Estradiol (Estrone)	Human Serum	2.5 – 250 pg/mL 5.0 – 500 pg/mL	LC/MS/MS	0.5 mL	None	-20	Richmond	Inactive	LCMSC248.1
	Human Plasma	2.5 – 250 pg/mL 5 – 500 pg/mL	LC/MS/MS	0.5 mL	K ₃ EDTA	-70	Richmond	Active	LCMSC248
β-Estradiol, Total**	Human Serum	0.025-10 ng/mL	LC/MS/MS	0.1 mL	None	-70	Richmond	Active	LCMS295
Estrone Sulfate	Human Serum	50-5,000 pg/mL	LC/MS/MS	0.5 mL	None	-70	Richmond	Active	LCMS27.1
Estrone & Equilin, Total**	Human Plasma	10-5,000 pg/mL 10-5,000 pg/mL	LC/MS/MS	0.5 mL	K ₃ EDTA	-70	Richmond	Active	LCMSC351
	Human Serum	10-5,000 pg/mL 10-5,000 pg/mL	LC/MS/MS	0.5 mL	None	-70	Richmond	Active	LCMSC351.1
Ethanol	Human Plasma	20-1,000 µg/mL	GC/FID	0.1 mL	Potassium Oxalate/Sodium Fluoride	-20	Richmond	Active	GC89
Ethinyl Estradiol & Norethindrone	Human Plasma	2-500 pg/mL 50-25,000 pg/mL	LC/MS/MS	0.5 mL	Sodium Heparin	-20	Richmond	Active	LCMSC255

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Ethinyl Estradiol & Norgestrel	Human Plasma	2-500 pg/mL 50-25,000 pg/mL	LC/MS/MS	0.5 mL	Potassium Oxalate/Sodium Fluoride	-70	Richmond	Active	LCMSC256
Ethinyl Estradiol Sulfate	Human Plasma	50-10,000 pg/mL	LC/MS/MS	0.25 mL	Sodium Heparin	-20	Richmond	Active	LCMSC398
Etodolac	Human Plasma	0.2-50 µg/mL	HPLC/UV	1.0 mL	Sodium Heparin	-20	Richmond	Active	LC193
Etoposide	Human Plasma	0.02-20 µg/mL	LC/MS/MS	0.05 mL	K₂EDTA	-20	Richmond	Active	LCMS515
Etoricoxib	Human Plasma	5-2500 ng/mL	LC/MS/MS	0.05 mL	K ₂ EDTA	-20	Madison	Active	P971.01
Everolimus	Human Whole Blood	0.2-200 ng/mL	LC/MS/MS	0.5 mL	K₂EDTA	-20	Madison	Active	P1022
Ezetimibe	Human Plasma	0.2-100 ng/mL	LC/MS/MS	0.1 mL	K ₂ EDTA	-20	Richmond	Active	LCMSC439
Ezetimibe, Total	Human Plasma	0.2-100 ng/mL	LC/MS/MS	0.1 mL	K ₂ EDTA	-20	Madison	Active	P945.00
	Human Plasma	1.0-500 ng/mL	LC/MS/MS	0.1 mL	K ₂ EDTA	-20	Richmond	Active	LCMSC440
	Human Plasma	1.0-500 ng/mL	LC/MS/MS	0.1 mL	K ₂ EDTA	-20	Madison	Active	P944.00
	Human Plasma	1.0-500 ng/mL	LC/MS/MS	0.1 mL	K ₂ EDTA	-20	Madison	Active	P944.00
Famotidine	Human Plasma	5-250 ng/mL	HPLC/UV	1.0 mL	Sodium Heparin	-20	Madison	Inactive	P255.01
Fenofibric Acid	Human Plasma	0.05-30 µg/mL	LC/MS/MS	0.05 mL	Sodium Heparin	-20	Richmond	Active	LCMSB235
Fentanyl	Human Plasma	25-10,000 pg/mL	LC/MS/MS	0.1 mL	K ₂ EDTA	-20	Richmond	Active	LCMSB186.5
	Human Plasma	5-2,000 pg/mL	LC/MS/MS	0.25 mL	K ₃ EDTA	-20	Richmond	Active	LCMSC186.4
	Human Serum	10-2,000 ng/mL	LC/MS/MS	0.1 mL	None	-20	Madison	Active	P869.01
	Dog Plasma	40-40,000 pg/mL	LC/MS/MS	0.1 mL	K ₂ EDTA	-20	Madison	Active	P966.00

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Fentanyl (Norfentanyl)	Mouse Plasma	0.04-40 ng/mL 0.04-40 ng/mL	LC/MS/MS	0.1 mL	K ₂ EDTA	-20	Madison	Active	P637.02
	Rat Plasma	0.04-40 ng/mL 0.04-40 ng/mL	LC/MS/MS	0.1 mL	K ₂ EDTA	-20	Madison	Active	P823.01
	Rabbit Plasma	0.04-40 ng/mL 0.04-40 ng/mL	LC/MS/MS	0.2 mL	K ₂ EDTA	-20	Madison	Active	P636.01
Fentanyl (Norfentanyl) (DespropionylFentanyl)	Human Plasma	10-500 pg/mL 10-500 pg/mL 10-500 pg/mL	LC/MS/MS	0.5 mL	K ₃ EDTA	-20	Madison	Active	P624.02
Fexofenadine	Human Plasma	0.5-500 ng/mL	LC/MS/MS	0.1 mL	Sodium Heparin	-20	Madison	Active	P745.04
	Human Urine	0.05-10 µg/mL	LC/MS/MS	0.02 mL	None	-20	Madison	Active	P746.04
Fluconazole	Human Plasma	20-10,000 ng/mL	LC/MS/MS	0.05 mL	Sodium Heparin	-20	Madison	Active	P791.00
Flunixin	Equine Plasma	10-5,000 ng/mL	LC/MS/MS	0.025 mL	Sodium Heparin	-70	Madison	Active	P970.00
Fluoxetine (Norfluoxetine)	Human Plasma	0.25-100 ng/mL 0.25-100 ng/mL	LC/MS/MS	0.2 mL	Sodium Heparin	-20	Richmond	Active	LCMS52
Fluticasone Propionate	Human Plasma	2.5-500 pg/mL	LC/MS/MS	1.0 mL	Potassium Oxalate/Sodium Fluoride	-70	Richmond	Active	LCMSC173
	Human Plasma	1.0-500 pg/mL	LC/MS/MS	1.0 mL	Potassium Oxalate/Sodium Fluoride	-20	Madison	Active	P817.02
Fluticasone & Salmeterol	Human Plasma	1-200 pg/mL 1-200 pg/mL	LC/MS/MS	1.0 mL	Potassium Oxalate/Sodium Fluoride	-20	Madison	Active	P988

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Fluvoxamine	Human Plasma	0.5-500 ng/mL	LC/MS/MS	0.1 mL	Sodium Heparin	-20	Madison	Active	P658.01
Formoterol	Human Plasma	0.5-250 pg/mL	LC/MS/MS	1.0 mL	Lithium Heparin with Eserine hemisulfate	-20	Madison	Active	P860.02
	Human Plasma	0.25-125 pg/mL	LC/MS/MS	1.0 mL	Lithium Heparin with Eserine hemisulfate	-20	Madison	Active	P996.00
	Human Urine	6.0-1,200 pg/mL	LC/MS/MS	0.1 mL	None	-20	Madison	Active	P883.01
Formoterol Enantiomers (R,R and S,S)	Human Urine	6.0-1,200 pg/mL each	LC/MS/MS	0.5 mL	None	-20	Madison	Active	P868.00
Furosemide	Human Urine	0.05-15 µg/mL	HPLC/FL	1.0 mL	None	-20	Madison	Active	P376.00
	Human Plasma	0.02-10 µg/mL	HPLC/FL	0.5 mL	Sodium Heparin	-20	Madison	Active	P372.01
	Human Plasma	0.02-10 µg/mL	HPLC/FL	0.2 mL	Sodium Heparin	-20	Richmond	Active	LC354
	Human Urine	0.2-50 µg/mL	LC/MS/MS	0.2 mL	None	-20	Richmond	Active	LCMS317
Gabapentin	Human Plasma	0.05- 10 µg/mL	LC/MS/MS	0.2 mL	K ₃ EDTA	-20	Richmond	Active	LCMS359
Galanthamine	Human Plasma	0.1-100 ng/mL	LC/MS/MS	0.25 mL	K ₃ EDTA	-20	Richmond	Active	LCMSB312
Gatifloxacin	Human Plasma	0.025-10 µg/mL	LC/MS/MS	0.05 mL	K ₃ EDTA	-20	Richmond	Active	LCMSB285
Gemfibrozil	Human Plasma	0.05-25 µg/mL	HPLC/FL	0.5 mL	Sodium Heparin	-20	Richmond	Inactive	LC56
Gemfibrozil	Human Plasma	0.05-50 µg/mL	HPLC/UV	0.5 mL	Sodium Heparin and EDTA	-20	Madison	Inactive	P115.00

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Glimepiride	Human Plasma	2-1,000 ng/mL	LC/MS/MS	0.1 mL	K ₃ EDTA	-20	Richmond	Active	LCMS266
Glipizide	Human Plasma	1-500 ng/mL	LC/MS/MS	0.1 mL	K ₃ EDTA	-20	Richmond	Active	LCMS137
Glyburide	Human Plasma	1-500 ng/mL	LC/MS/MS	0.25 mL	K ₃ EDTA	-20	Richmond	Active	LCMS159
Glyburide <i>Lower range for pediatric studies</i>	Human Plasma	0.10-50 ng/mL	LC/MS/MS	0.25 mL	K ₃ EDTA	-20	Richmond	Active	LCMS159.1
Guaifenesin	Human Plasma	2-2,000 ng/mL	LC/MS/MS	0.075 mL	Sodium Heparin	-20	Madison	Active	P973.00
Guaifenesin & Codeine & Morphine	Human Plasma	2-2,000 ng/mL 0.1-100 ng/mL 0.2-20 ng/mL	LC/MS/MS	0.3 mL	Sodium Heparin	-20	Madison	Active	P919.02
Herceptin <i>aka Trastuzumab</i>	Human Serum	10-200 µg/mL	ELISA	0.2 mL	None	-70	Richmond	Active	ICD178
	Human Plasma	10-100 µg/mL	ELISA	0.1 mL	EDTA	-20	Richmond	Active	ICD178.1
Hydrochlorothiazide	Human Plasma	2-200 ng/mL	LC/MS/MS	0.25 mL	Sodium Heparin	-20	Richmond	Active	LCMSB205.4
	Human Plasma	2-200 ng/mL	LC/MS/MS	0.25 mL	K ₃ EDTA	-20	Richmond	Active	LCMSB205
	Human Urine	0.1-25 µg/mL	LC/MS/MS	0.05 mL	None	-20	Richmond	Active	LCMSB205.3
Hydrocodone (Hydromorphone)	Human Plasma	0.1-100 ng/mL 0.05-50 ng/mL	LC/MS/MS	0.1 mL	K ₂ EDTA	-20	Richmond	Active	LCMSC492
Hydrocodone (Hydromorphone)	Human Plasma	0.1-100 ng/mL 0.05-50 ng/mL	LC/MS/MS	0.5 mL	K ₃ EDTA	-20	Madison	Inactive	P623.00

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	Hamster Plasma	1-400 ng/mL 1-400 ng/mL	LC/MS/MS	0.05 mL	Sodium Heparin	-20	Madison	Inactive	P659.00
Hydrocodone & Ibuprofen	Human Plasma	0.25-50 ng/mL 0.25-50 ug/mL	LC/MS/MS	0.2 mL	K ₃ EDTA	-20	Madison	Active	P774.01
Ibuprofen	Human Plasma	0.2-50 µg/mL	LC/MS/MS	0.1 mL	Sodium Heparin	-20	Richmond	Active	LCMSB409
	Human Plasma	0.2-50 µg/mL	HPLC/UV	0.5 mL	Sodium Heparin	-20	Madison	Inactive	P046.04
IFN Gamma	Human Serum	31.3-1,000 pg/mL	ELISA	0.2 mL	None	-70	Richmond	Active	ICD278
IL-1β	Human Serum	7.82-250 pg/mL	ELISA	0.4 mL	None	-20	Richmond	Active	ICD151
IL-2	Human Serum	62.5-2,000 pg/mL	ELISA	0.2 mL	None	-20	Richmond	Active	ICD150
IL-4	Human Serum	31.3-2,000 pg/mL	ELISA	0.1 mL	None	-70	Richmond	Active	ICD277
IL-6	Human Serum	5-320 pg/mL	ELISA	0.2 mL	None	-20	Richmond	Active	ICD141
IL-10	Human Serum	10- 500 pg/mL	ELISA	0.3 mL	None	-20	Richmond	Active	ICD142
Imantinib	Human Plasma	10-10,000 ng/mL	LC/MS/MS	0.05 mL	K₂EDTA	-20	Madison	Active	P1010
Irbesartan	Human Plasma	2.5-2,500 ng/mL	LC/MS/MS	0.1 mL	K ₃ EDTA	-20	Richmond	Active	LCMSB232
Isopropamide	Human Plasma	0.05-10 ng/mL	LC/MS/MS	0.5 mL	Sodium Heparin	-20	Madison	Inactive	P409.01
Itraconazole (2-Hydroxyitraconazole)	Human Plasma	0.5-100 ng/mL 0.5-100 ng/mL	HPLC/FL	1.0 mL	Sodium Heparin	-20	Madison	Active	P476.01

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Ivermectin B1a	Equine Plasma	0.5-50 ng/mL	HPLC/FL	0.5 mL	Sodium Heparin	-20	Madison	Active	P575.01
	Equine Serum	0.50-50 ng/mL 0.84-1.68 ng/mL	HPLC/FL	2.0 mL	None	-20	Madison	Active	P389.00
Ivermectin B1b	Equine Plasma	0.10-10 ng/mL	HPLC/FL	0.5 mL	Sodium Heparin	-20	Madison	Active	P621.00
Ivermectin B1a	Swine Plasma	0.50-100 ng/mL	HPLC/FL	0.5 mL	Sodium Heparin	-20	Madison	Active	P646.00
	Bovine Plasma	0.50-100 ng/mL	HPLC/FL	0.5 mL	Sodium Heparin	-20	Madison	Active	P479.01
	Dog Plasma	0.50-50 ng/mL	HPLC/FL	0.5 mL	Sodium Heparin	-20	Madison	Active	P457.02
Ivermectin B1a	Dog Plasma	0.10-10 ng/mL	HPLC/FL	0.5 mL	Sodium Heparin	-20	Madison	Active	P715.01
Ketamine (Norketamine)	Human Serum	5-5,000 ng/mL 2.5-2,500 ng/mL	LC/MS/MS	0.2 mL	None	-20	Madison	Active	P627.00
	Rabbit Plasma	10-10,000 ng/mL 5-5,000 ng/mL	LC/MS/MS	0.1 mL	Sodium Heparin	-20	Madison	Active	P648.00
	Human Plasma	0.5-500 ng/mL 0.5-500 ng/mL	LC/MS/MS	0.2 mL	Sodium Heparin	-20	Madison	Active	P663.02
S-Ketamine and R-Ketamine S-Norketamine and R-Norketamine	Feline Plasma	20-8,000 ng/mL 10-4,000 ng/mL	LC/MS/MS	50 uL	Sodium Heparin	-20	Madison	Active	P703.01
Ketoconazole	Human Plasma	0.05-5 µg/mL	LC/MS/MS	0.1 mL	Sodium Heparin	-20	Richmond	Active	LCMSB202
Ketoprofen	Human Plasma	1-500 ng/mL	LC/MS/MS	0.1 mL	Sodium Heparin	-20	Richmond	Active	LCMSB162

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Ketoprofen, and Total**	Human Plasma	0.1-50 ng/mL	LC/MS/MS	0.4 mL	Sodium Heparin	-20	Madison	Active	P747.02
	Mini Pig	0.1-50 ng/mL	LC/MS/MS	0.1 mL	Sodium Heparin	-20	Madison	Active	P821.00
	Human Plasma	1.0-1,000 ng/mL	LC/MS/MS	0.05 mL	Sodium Heparin	-20	Madison	Active	P767.00
	Human Urine	5-5,000 ng/mL	LC/MS/MS	0.025 mL	None	-20	Madison	Active	P768.01
Ketoprofen Enantiomers	Human Plasma	0.5– 250 ng/mL 0.5-250 ng/mL	LC/MS/MS	0.2 mL	Sodium Heparin	-20	Madison	Active	P782.00
Ketorolac	Human Plasma	0.025-25 µg/mL	HPLC/UV	0.25 mL	Sodium Heparin	-20	Richmond	Active	LC207
Lamivudine (3TC)	Human Plasma	10-4000 ng/mL	HPLC/UV	0.5 mL	EDTA	-20	Madison	Active	P560.00
	Human Plasma	10-5,000 ng/mL	HPLC/UV	0.5 mL	Sodium Heparin	-20	Richmond	Active	LC269
Lamotrigine See Cocktail Assay "Epilepsy"	Human Plasma	0.1-20 µg/mL	LC/MS/MS	0.1 mL	Sodium Heparin	-70	Madison	Active	P837.00
Lansoprazole	Human Plasma	2-2,000 ng/mL	LC/MS/MS	0.05mL	K ₃ EDTA	-20	Richmond	Active	LCMS178
	Human Plasma	2-2,000 ng/mL	LC/MS/MS	0.05mL	K ₃ EDTA	-20	Madison	Active	P896.02
Leucovorin Diasteromers (6S-5-Methyltetrahydrofolic Acid Diastereomers)	Human Serum	0.5-250 µg/mL 0.1-50 µg/mL	LC/MS/MS	0.05 mL	None	-70	Richmond	Active	LCMSC387
Leuprolide	Human Plasma	0.025-25 ng/mL	LC/MS/MS	0.5 mL	K ₃ EDTA	-20	Richmond	Active	LCMSC245
Levetiracetam	Human Plasma	0.05-50 µg/mL	LC/MS/MS	0.1 mL	K ₃ EDTA	-20	Madison	Active	P811.03

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Levodopa & Carbidopa	Human Plasma	5-2,500 ng/mL 0.5-250 ng/mL	LC/MS/MS	0.2 mL	K ₃ EDTA	-70	Madison	Active	P838.00
Levodopa & Carbidopa (3-O-MethylDopa)	Human Plasma	10-5,000 ng/mL 0.5-250 ng/mL 25-25,000 ng/mL	LC/MS/MS	0.2 mL	K ₃ EDTA	-70	Madison	Active	P959.00
Levofloxacin	Human Serum	25-15,000 ng/mL	HPLC/UV	0.5 mL	None	-20	Richmond	Active	LC287
Lidocaine	Human Plasma	2-500 ng/mL	HPLC/UV	0.25 mL	Sodium Heparin	-20	Madison	Active	P654.00
	Pig Plasma	2-500 ng/mL	HPLC/UV	0.25 mL	Sodium Heparin	-20	Madison	Active	P634.00
	Rat Plasma	1-1,000 ng/mL	LC/MS/MS	0.05 mL	Sodium Heparin	-20	Madison	Active	P667.00
	Human Plasma	0.2-200 ng/mL	LC/MS/MS	0.05 mL	K ₃ EDTA	-20	Madison	Active	P871.00
Lisinopril	Human Plasma	0.5-400 ng/mL	LC/MS/MS	0.3 mL	Sodium Heparin	-20	Madison	Active	P698.01
	Human Urine	25-25,000 ng/mL	LC/MS/MS	0.025 mL	None	-20	Madison	Active	P694.00
	Rat Plasma	1.0-1,000 ng/mL	LC/MS/MS	0.1 mL	Sodium Heparin	-20	Madison	Active	P673.00
Loperamide	Human Plasma	10-10,000 pg/mL	LC/MS/MS	0.5 mL	Sodium Heparin	-20	Madison	Active	P557.02
	Human Plasma	10-10,000 pg/mL	LC/MS/MS	0.1 mL	Sodium Heparin	-20	Richmond	Active	LCMSC310
Lopinavir See Cocktail Assay "Antiviral"	Human Plasma	10-10,000 ng/mL	LC/MS/MS	0.1 mL	K ₃ EDTA	-20	Madison	Active	P1002.01
Loratadine (Descarboethoxyloratadine) (3-OHDescarboethoxyloratadine)	Human Plasma	0.025-10 ng/ml 0.025-10 ng/ml 0.025-10 ng/ml	LC/MS/MS	0.25 mL	Sodium Heparin	-20	Richmond	Active	LCMS188.1

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Lorazepam	Human Plasma	0.5-50 ng/mL	LC/MS/MS	0.1 mL	Sodium Heparin	-20	Richmond	Active	LCMS142
Lorazepam, Total**	Human Plasma	2.5-500 ng/mL	LC/MS/MS	0.05 mL	Sodium Heparin	-20	Richmond	Active	LCMSB294
Losartan (Acid Metabolite)	Human Plasma	0.5-500 ng/mL 0.5-500 ng/mL	LC/MS/MS	0.15 mL	Sodium Heparin	-20	Richmond	Active	LCMSC208
	Human Urine	5-2,000 ng/mL 2-2,000 ng/mL	LC/MS/MS	0.1 mL	None	-20	Richmond	Inactive	LCMSC208.1
	Human Plasma	0.05-12.5 ng/mL 0.1-25 ng/mL	LC/MS/MS	0.25 mL	Sodium Heparin	-70	Richmond	Inactive	LCMS267
Meclocycline	Human Plasma	25-10,000 ng/mL	HPLC/UV	0.2 mL	K ₂ EDTA	-20	Richmond	Active	LC337
Medroxyprogesterone Acetate	Human Plasma	0.01-10 ng/mL	LC/MS/MS	0.5 mL	Sodium Heparin	-20	Richmond	Inactive	LCMS99
	Human Serum	0.02-5 ng/mL	LC/MS/MS	0.25 mL	None	-20	Richmond	Active	LCMSC198
Memantine	Human Plasma	0.5-50 ng/mL	LC/MS/MS	0.05 mL	Sodium Heparin	-20	Madison	Active	P786.01
	Human Plasma	0.5-50 ng/mL	LC/MS/MS	0.05 mL	K ₂ EDTA	-20	Madison	Active	P786.01
Metformin	Human Plasma	2-2,000 ng/mL	LC/MS/MS	0.1 mL	Sodium Heparin	-20	Richmond	Active	LCMS153
	Human Plasma	2-1,000 ng/mL	LC/MS/MS	0.05 mL	K ₂ EDTA	-20	Richmond	Active	LCMS153.5
Metformin	Human Urine	10-10,000 µg/mL	HPLC/UV	0.05 mL	None	-20	Richmond	Active	LC251.1
	Dog Plasma	1-1,000 ng/mL	LC/MS/MS	0.1 mL	K ₃ EDTA	-20	Richmond	Active	LCMSB153.4

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Methadone	Human Plasma	0.1-50 ng/mL	LC/MS/MS	0.2 mL	K ₃ EDTA	-20	Richmond	Active	LCMS323
	Human Urine	25-1,000 ng/mL	HPLC/UV	1.0 mL	None	-20	Richmond	Inactive	LC238.2
Methadone Enantiomers	Human Plasma	5-1,000 ng/mL 5-1,000 ng/mL	LC/MS/MS	0.05 mL	K ₃ EDTA	-20	Richmond	Active	LCMSC323.1
Methotrexate (7-Hydroxymethotrexate)	Human Plasma	5-500 ng/mL 5-500 ng/mL	HPLC/UV	1.0 mL	Sodium Heparin	-20	Madison	Active	P461.02
	Human Urine	0.1-10 ug/mL 0.1-10 ug/mL	HPLC/UV	0.05 mL	None	-20	Madison	Active	P683.02
	Human Plasma	1.0-1,000 ng/mL	LC/MS/MS	0.05 mL	Sodium Heparin	-20	Richmond	Active	LCMSC380.1
	Human Urine	0.05-25 ug/mL	LC/MS/MS	0.05 mL	None	-20	Richmond	Active	LCMSC380.2
	Human Plasma	1.0-1,000 ng/mL	LC/MS/MS	0.05 mL	Sodium Heparin	-20	Richmond	Active	LCMS380
Methylphenidate	Human Plasma	0.25-25 ng/mL	LC/MS/MS	0.10 mL	Sodium Heparin	-20	Richmond	Inactive	LCMSB187
	Human Plasma	0.1-100 ng/mL	LC/MS/MS	0.05 mL	K ₃ EDTA	-70	Richmond	Active	LCMS230.1
Methylphenidate (Ritalinic Acid)	Beagle Plasma	0.10-100 ng/mL 2.0-2,000 ng/mL	LC/MS/MS	0.05 mL	K ₃ EDTA	-20	Richmond	Active	LCMS230
Methylphenidate (Ritalinic Acid)	Human Plasma	0.1-50 ng/mL 2.0-1,000 ng/mL	LC/MS/MS	0.1 mL	Sodium Heparin	-20	Madison	Active	P689.02

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Methylphenidate Enantiomers (Ritalinic Acid Enantiomers)	Human Plasma	0.05-50 ng/mL (D) 0.01-10 ng/mL (L) 1.0-1,000 ng/ml (D) 1.0-1,000 ng/ml (L)	LC/MS/MS	0.2 mL	Sodium Heparin	-20	Madison	Active	P779.00
Methyltestosterone	Human Plasma	5- 25,000 pg/mL	LC/MS/MS	0.5 mL	K ₃ EDTA	-20	Richmond	Active	LCMSC349
Metoprolol	Human Plasma	5-1,000 ng/mL	LC/MS/MS	0.05 mL	Sodium Heparin	-20	Madison	Active	P940.00
Metronidazole (1-Hydroxymetronidazole)	Human Plasma	10-1,000 ng/mL 10-1,000 ng/mL	HPLC/UV	0.5 mL	Sodium Heparin	-20	Madison	Active	P686.00
Mevalonic Acid	Human Plasma	0.5-20 ng/mL	LC/MS/MS	0.5 mL	K ₃ EDTA	-20	Madison	Active	P758.02
	Human Urine	25-1,000 ng/mL	LC/MS/MS	0.25 mL	None	-20	Madison	Active	P759.00
Midazolam (1-Hydroxy midazolam) (1-HydroxyMidazolam, Total**)	Human Plasma	0.1-100 ng/mL 0.1-100 ng/mL	LC/MS/MS	0.3 mL	Sodium Heparin	-20	Richmond	Active	LCMS97
	Human Urine	1-1,000 ng/mL	LC/MS/MS	0.2 mL	None	-20	Richmond	Inactive	LCMS228
Midazolam (1-Hydroxy midazolam) (4-Hydroxy midazolam)	Human Plasma	0.1-100 ng/mL 0.1-100 ng/mL 0.1-100 ng/mL	LC/MS/MS	0.2 mL	Sodium Heparin	-20	Madison	Active	P1024.00
Midazolam (1-HydroxyMidazolam)	Human Urine	0.05-50 ng/mL 1-1,000 ng/mL	LC/MS/MS	0.2 mL	None	-20	Madison	Active	P678.04
Midazolam (1-HydroxyMidazolam)	Human Urine	0.05-50 ng/mL 2-2,000 ng/mL	LC/MS/MS	0.2 mL	None	-20	Madison	Active	P870.01
Minocycline	Human Plasma	0.02-10 µg/mL	HPLC/UV	0.5 mL	Sodium Heparin	-20	Richmond	Active	LC63

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	Human Serum	0.02-10 µg/mL	HPLC/UV	0.5 mL	None	-20	Richmond	Active	LC63.1
	Human Saliva	0.02-10 µg/mL	HPLC/UV	0.5 mL	None	-20	Richmond	Active	LC63.5
	Human Crevicular Fluid	10-2,000 ng/µL	HPLC/UV	1.0 µL	None	-20	Richmond	Active	LC360
Mirtazapine	Human Plasma	0.05-100 ng/mL	LC/MS/MS	0.1 mL	Sodium Heparin	-20	Richmond	Active	LCMS145
Mometasone Furoate	Human Plasma	0.25-25 pg/mL	LC/MS/MS	1.0 mL	K ₃ EDTA	-20	Richmond	Active	LCMSD345.1
	Dog Plasma	10-1,000 pg/mL	LC/MS/MS	0.1 mL	K ₂ EDTA	-20	Richmond	Active	LCMSD345.4
	Rat Plasma	10-1,000 pg/mL	LC/MS/MS	0.1 mL	K ₂ EDTA	-20	Richmond	Active	LCMSD345.3
Montelukast	Human Plasma	5-1,000 ng/mL	LC/MS/MS	0.05 mL	K ₂ EDTA	-80	Richmond	Active	LCMSC385
Morphine (Morphine-3-β-glucuronide) (Morphine-6-β-glucuronide)	Human Plasma	0.5-50 ng/mL 10-1,000 ng/mL 2-200 ng/mL	LC/MS/MS	0.25 mL	Sodium Heparin	-20	Richmond	Active	LCMS 454
Morphine (Morphine-3-β-glucuronide) (Morphine-6-β-glucuronide) Codeine	Human Plasma	0.2-20 ng/mL 2-2,00 ng/mL 0.5-50 ng/mL 1-100 ng/mL	LC/MS/MS	0.25 mL	Sodium Heparin	-20	Richmond	Active	LCMSC396
Morphine & Codeine & Guafenesin	Human Plasma	0.2-20 ng/mL 0.1-100 ng/mL 2-2,000 ng/mL	LC/MS/MS	0.3 mL	Sodium Heparin	-20	Madison	Active	P919.02
Moxifloxacin	Human Plasma	25-5,000 ng/mL	LC/MS/MS	0.05 mL	K ₃ EDTA	-20	Richmond	Active	LCMSB276

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Naloxone & Buprenorphine (Norbuprenorphine)	Human Plasma	5-500 pg/mL 50-10,000 pg/mL 50-10,000 pg/mL	LC/MS/MS	0.5 mL	K ₃ EDTA	-20	Madison	Active	P942.01
Naloxone, Total	Human Plasma	25-10,000 pg/mL	LC/MS/MS	0.2 mL	K ₃ EDTA	-20	Madison	Active	P943.00
Naproxen	Human Plasma	0.1-100 µg/mL	LC/MS/MS	0.05 mL	Sodium Heparin	-20	Richmond	Active	LCMSB486
Navelbine	Human Plasma	2-500 ng/mL	HPLC/FL	0.5 mL	Sodium Heparin	-70	Richmond	Inactive	LC253.1
Nevirapine	Human Plasma	25-10,000 ng/mL	LC/MS/MS	0.05 mL	K ₃ EDTA	-20	Richmond	Active	LCMS250
Niacin <i>aka Vitamin B3, or nicotinic acid</i> (Nicotinuric acid) <i>aka NUA</i> (1-Methyl-Nicotinamide) <i>aka NMA</i> (N-Methyl-2-Pyridone-5-carboxamide) <i>aka 2PY</i>	Human Plasma	5-2,000 ng/mL 5-2,000 ng/mL	LC/MS/MS	0.25mL	Sodium Heparin	-70	Richmond	Active	LCMSB264
	Human Urine	0.02 -20 µg/mL 0.2 - 200 µg/mL	LC/MS/MS	0.1 mL	None	-20	Richmond	Active	LCMSB264.1
	Human Urine	0.5-250 µg/mL 2.5-250 µg/mL	LC/MS/MS	0.05 mL	None	-20	Richmond	Active	LCMS274.1
	Human Plasma	0.1-10 µg/mL 0.2- 20 µg/mL	LC/MS/MS	0.1 mL	Sodium Heparin	-20	Richmond	Active	LCMSB274
(1-Methyl-Nicotinamide) <i>aka NMA</i> (N-Methyl-2-Pyridone-5-carboxamide) <i>aka 2PY</i>	Human Plasma	0.1-10 µg/mL 0.2- 20 µg/mL	LC/MS/MS	0.1 mL	K ₂ EDTA	-20	Richmond	Active	LCMSB274.2
Nicotine (Cotinine)	Human Plasma	0.5-100 ng/mL 2.5-500 ng/mL	LC/MS/MS	0.5 mL	Sodium Heparin	-20	Madison	Active	P538.02
Nilotinib	Human Plasma	2-2,000 ng/mL	LC/MS/MS	0.05 mL	K₂EDTA	-20	Madison	Active	P1011

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Nizatidine (N-Desmethylnizatidine)	Human Plasma	5-5,000 ng/mL 5-5,000 ng/mL	HPLC/UV	1.0 mL	Sodium Heparin	-20	Richmond	Active	LC264
Norelgestromin <i>aka 17-desacetyl norgestimate</i>	Human Plasma	0.02-10 ng/mL	LC/MS/MS	0.5 mL	Potassium Oxalate/Sodium Fluoride	-70	Richmond	Active	LCMSC372
Norethindrone & Ethinyl Estradiol	Human Plasma	50-25,000 pg/mL 2-500 pg/mL	LC/MS/MS	0.5 mL	Sodium Heparin	-20	Richmond	Active	LCMSC255
Norgestrel & Ethinyl Estradiol	Human Plasma	50-25,000 pg/mL 2-500 pg/mL	LC/MS/MS	0.5 mL	Potassium Oxalate/Sodium Fluoride	-70	Richmond	Active	LCMSC256
Octreotide	Human Plasma	0.025-25 ng/mL	LC/MS/MS	0.2 mL	K ₃ EDTA	-20	Richmond	Active	LCMSC296
	Monkey Plasma	5.0-250 ng/mL	LC/MS/MS	0.2 mL	K ₃ EDTA	-70	Richmond	Active	LCMSC296.2
	Monkey Plasma	0.1-25 ng/mL	LC/MS/MS	0.2 mL	K ₃ EDTA	-70	Richmond	Active	LCMSC296.1
	Rabbit Plasma	1-100 ng/mL	LC/MS/MS	0.1 mL	K ₃ EDTA	-70	Richmond	Active	LCMSC296.3
Olanzapine (Desmethyloanzapine)	Human Plasma	0.05-50 ng/mL 0.1-100 ng/mL	LC/MS/MS	0.3 mL	Sodium Heparin	-20	Richmond	Active	LCMS84
Omeprazole	Human Plasma	1-1,000 ng/mL	LC/MS/MS	0.1 mL	Sodium Heparin	-20	Richmond	Active	LCMSB131
	Equine Plasma	1-1,000 ng/mL	LC/MS/MS	0.05 mL	Sodium Heparin	-20	Madison	Active	P1025.00
Omeprazole (5-Hydroxyomeprazole) (Omeprazole sulphone)	Human Plasma	1-1,000 ng/mL 1-1,000 ng/mL 1-1,000 ng/mL	LC/MS/MS	0.1 mL	Sodium Heparin	-20	Madison	Active	P749.04

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Ondansetron	Human Plasma	0.5-250 ng/mL	LC/MS/MS	0.1 mL	K ₃ EDTA	-20	Richmond	Active	LCMS165
	Dog Plasma	0.5-250 ng/mL	LC/MS/MS	0.1 mL	K ₃ EDTA	-20	Richmond	Active	LCMS165.1
Oxaprozin	Human Plasma	0.5-500 µg/mL	HPLC/UV	0.1 mL	Sodium Heparin	-20	Richmond	Inactive	LC243
Oxcarbazepine (10-Hydroxycarbamazepine (MHD)) (10,11-Dihydroxycarbamazepine (DHD))	Human Plasma	0.1-5 µg/mL 0.1-5 µg/mL 0.5-25 µg/mL	HPLC/UV	0.3 mL	Sodium Heparin	-70	Madison	Active	P743.00
	Human Plasma	0.1-5 µg/mL	LC/MS/MS	0.1 mL	Sodium Heparin	-70	Madison	Active	P850.00
(Monohydroxyoxcarbazepine <i>aka</i> MHD)	Human Plasma	1-50 ng/mL	LC/MS/MS	0.05 mL	Sodium Heparin	-70	Madison	Active	P886.00
Oxybutynin Enantiomers (Desethyloxybutynin enantiomers)	Human Plasma	0.5-200 ng/mL 0.5-200 ng/mL	LC/MS/MS	0.2 mL	K ₂ EDTA	-70	Richmond	Active	LCMS 411
Oxycodone	Human Plasma	0.1-100 ng/mL	LC/MS/MS	0.5 mL	K ₃ EDTA	-20	Madison	Active	P649.01
Oxymorphone	Human Plasma	10-1,000 pg/mL	LC/MS/MS	0.5 mL	K ₃ EDTA	-20	Madison	Active	P820.01
Oxymorphone (6-OH-oxymorphone)	Human Plasma	0.1-10 ng/mL 0.1-10 ng/mL	LC/MS/MS	0.25 mL	K₂EDTA	-20	Madison	Active	P930
Paclitaxel (Taxol ®)	Human Plasma	5-1,000 ng/mL	LC/MS/MS	0.1 mL	Sodium Heparin	-70	Richmond	Active	LCMS163
	Human Plasma	0.1-100 ng/mL	LC/MS/MS	0.1 mL	K ₃ EDTA	-20	Richmond	Active	LCMS163.2
Paroxetine	Human Plasma	0.25-50 ng/mL	LC/MS/MS	0.2 mL	Sodium Heparin	-20	Richmond	Active	LCMS161

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	Human Plasma	0.25-50 ng/mL	LC/MS/MS	0.2 mL	Sodium Heparin K ₃ EDTA	-20	Madison	Active	P776.01
Pemoline	Human Plasma	25-5,000 ng/mL	HPLC/UV	0.2 mL	Sodium Heparin	-20	Richmond	Inactive	LC258
Pentoxifylline (Hydroxypentifylline) (Carboxypropylpentifylline)	Human Plasma	5-1,000 ng/mL 10-2,000 ng/mL 10-2,000 ng/mL	HPLC/UV	0.5 mL	Sodium Heparin	-20	Madison	Active	P348.01
Phenethylamine	Human Urine	1.13-501 ng/mL	LC/MS/MS	0.2 mL	None	-20	Madison	Active	P655.00
Phenobarbital See Cocktail Assay "Epilepsy"	Human Plasma	0.1-50 µg/mL	LC/MS/MS	0.1 mL	Sodium Heparin	-70	Madison	Active	P837.00
Phenylbutazone	Equine Plasma	0.1-40 µg/mL	HPLC/UV	0.25 mL	Sodium Heparin	-20	Madison	Active	P554.04
Phenylephrine, Total**	Human Plasma	5.0-1,000 ng/mL	LC/MS/MS	0.05 mL	Sodium Heparin	-70	Madison	Active	P806.01
	Human Plasma	1.0-1,000 ng/mL	LC/MS/MS	0.05 mL	Lithium Heparin	-70	Richmond	Active	LCMS257
	Human Urine	100-5,000 ng/mL	LC/MS/MS	0.05 mL	None	-70	Madison	Active	P958.01
Phenylephrine (Phenylephrine Glucuronide)	Human Urine	2.0-200 ng/mL 2.0-200 ng/mL	LC/MS/MS	0.2 mL	None	-70	Madison	Active	P956.00
(3-Hydroxymandelic acid)	Human Urine	100-5,000 ng/mL	LC/MS/MS	0.05 mL	None	-70	Madison	Active	P957.00
Phenylephrine	Human Plasma	10-2,500 pg/mL	LC/MS/MS	0.25 mL	Lithium Heparin	-70	Richmond	Active	LCMSC392.1
	Human Plasma	10-2,500 pg/mL	LC/MS/MS	0.25 mL	K ₃ EDTA	-70	Madison	Active	P898.01
Phenylpropanolamine	Human Plasma	5-1,000 ng/mL	HPLC/UV	0.5 mL	Sodium Heparin	-20	Richmond	Inactive	LC181

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	Human Plasma	5-500 ng/mL	HPLC/UV	1.0 mL	EDTA	-20	Madison	Inactive	P002.05
Phenytoin	Human Plasma	20-5,000 ng/mL	LC/MS/MS	0.25 mL	K ₂ EDTA	-20	Richmond	Active	LCMSB418
Phenytoin Phenytoin, Total **	Human Plasma	0.05-15 ug/mL 0.1- 30 ug/mL	LC/MS/MS	0.05 mL 0.025 mL	K ₂ EDTA	-20	Madison	Active	P639.00
Phenytoin, Free (unbound) (5-Hydroxyphenytoin)	Human Plasma Ultrafiltrate	0.05-15 µg/mL 0.05-15 µg/mL	LC/MS/MS	0.05 mL	Sodium Heparin	-20	Madison	Active	P742.03
Phenytoin, Total** (5-Hydroxyphenytoin)	Human Plasma	0.05-15 µg/mL 0.1- 30 µg/mL	LC/MS/MS	0.025 mL	Sodium Heparin	-20	Madison	Active	P742.03
(5-Hydroxyphenytoin)	Human Plasma	0.1-20 µg/mL	HPLC/UV	1.0 mL	Sodium Heparin	-20	Madison	Active	P281.00
Phenytoin (5-Hydroxyphenytoin)	Human Urine	0.1-40 µg/mL 0.1-40 µg/mL	HPLC/UV	0.5 mL	None	-20	Madison	Active	P642.01
(5-Hydroxyphenytoin), Total**	Human Urine	1-200 µg/mL	HPLC/UV	0.05 mL	None	-20	Madison	Active	P643.00
Pravastatin	Human Plasma	0.5-250 ng/mL	LC/MS/MS	0.25 mL	Sodium Heparin	-20	Richmond	Active	LCMS47
Praziquantel	Dog Plasma	10-4,000 ng/mL	LC/MS/MS	0.05 mL	Sodium Heparin	-20	Madison	Active	P989.00
	Feline Plasma	10-4,000 ng/mL	LC/MS/MS	0.05 mL	Sodium Heparin	-20	Madison	Active	P831.01
Prednisone (Prednisolone)	Human Plasma	0.5-1,000 ng/mL 0.5-1,000 ng/mL	LC/MS/MS	0.3 mL	K ₂ EDTA	-20	Madison	Active	P955.00
	Rat Plasma	0.25-250 ng/mL 0.25-250 ng/mL	LC/MS/MS	0.05 mL	K ₂ EDTA	-70	Madison	Active	P984.00

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Pregabalin	Human Plasma	20-20,000 ng/mL	LC/MS/MS	0.5 mL	K ₂ EDTA	-20	Richmond	Active	LCMSC487
Procainamide (N-Acetylprocainamide)	Human Plasma	0.025-10 µg/mL 0.025-10 µg/mL	HPLC/UV	0.25 mL	Sodium Heparin	-20	Richmond	Inactive	LC306
Progesterone	Human Plasma	0.05-50 ng/mL	LC/MS/MS	0.1 mL	K ₂ EDTA	-70	Richmond	Active	LCMSC431
	Rabbit Plasma	0.5-50 ng/mL	LC/MS/MS	0.05 mL	K ₂ EDTA	-70	Richmond	Active	LCMSC431.1
Proguanil	Human Plasma	0.5-500 ng/mL	LC/MS/MS	0.05 mL	K₂EDTA	-20	Richmond	Active	LCMS530
Propranolol (4-Hydroxypropranolol)	Human Plasma	0.5-250 ng/mL 0.5-250 ng/mL	LC/MS/MS	0.1 mL	Sodium Heparin	-70	Richmond	Active	LCMSB191
	Human Urine	1-250 ng/mL 1-250 ng/mL	LC/MS/MS	0.25 mL	None	-70	Richmond	Active	LCMSB191.1
Propranolol, Total** (4-Hydroxypropranolol)	Human Plasma	2-600 ng/mL 2-600 ng/mL	LC/MS/MS	0.25 mL	Sodium Heparin	-70	Richmond	Active	LCMSB281.2
Pseudoephedrine	Human Plasma	2.5-500 ng/mL	LC/MS/MS	0.1 mL	Sodium Heparin	-20	Richmond	Active	LCMSB201
Pseudoephedrine & Dextromethorphan	Human Plasma	0.8-400 ng/mL 10-5,000 pg/mL	LC/MS/MS	0.5 mL	Sodium Heparin	-20	Madison	Active	P617.02
Quetiapine	Human Plasma	1-1000 ng/mL	LC/MS/MS	0.05 mL	K ₂ EDTA	-20	Richmond	Active	LCMSB430
Quinidine	Human Plasma	25-5,000 ng/mL	HPLC/FL	0.5 mL	Sodium Heparin	-20	Richmond	Inactive	LC330.1
Raltegravir See Cocktail Assay "Antiviral"	Human Plasma	10-10,000 ng/mL	LC/MS/MS	0.1 mL	K ₃ EDTA	-20	Madison	Active	P1002.00

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Ramipril (Ramiprilat)	Human Plasma	0.05-50 ng/mL 0.05-50 ng/mL	LC/MS/MS	0.25 mL	K ₃ EDTA	-70	Richmond	Active	LCMS311
Ranitidine	Human Plasma	2.5-2,500 ng/mL	LC/MS/MS	0.05 mL	K ₃ EDTA	-20	Madison	Active	P873.01
Ranolazine	Human Plasma	2-2,000 ng/mL	LC/MS/MS	0.1 mL	K ₂ EDTA	-20	Madison	Active	P934.01
Ranolazine (RS-94827 Metabolite)	Human Plasma	2-2,000 ng/mL 2-2,000 ng/mL	LC/MS/MS	0.25 mL	K₂EDTA	-20	Madison	Active	P1015
Repaglinide	Human Plasma	0.2-200 ng/mL	LC/MS/MS	0.1 mL	K ₂ EDTA	-20	Richmond	Active	LCMS460
Ribavirin	Human Plasma	5-5,000 ng/mL	LC/MS/MS	0.05 mL	K ₂ EDTA	-20	Richmond	Active	LCMS510
Rifabutin (25-O-Desacetylriofabutin)	Human Plasma	2-800 ng/mL 2-800 ng/mL	LC/MS/MS	0.1 mL	K ₃ EDTA	-20	Madison	Active	P587.06
Rifampin	Human Plasma	0.1-10 µg/mL	LC/MS/MS	0.05 mL	Sodium Heparin	-20	Madison	Active	P941.02
Risperidone (9-Hydroxyrisperidone)	Human Urine	1-300 ng/mL 1-300 ng/mL	LC/MS/MS	0.2 mL	None	-20	Madison	Active	P362.01
	Human Plasma	0.1-60 ng/mL 0.1-60 ng/mL	LC/MS/MS	0.1 mL	K₂EDTA	-20	Madison	Active	P1019
	Human Serum	0.1-30 ng/mL 0.1-30 ng/mL	LC/MS/MS	1.0 mL	None	-20	Madison	Active	P361.00
Ritonavir	Human Plasma	10-10,000 ng/mL	LC/MS/MS	0.05 mL	Sodium Heparin	-70	Richmond	Active	LCMS210.2

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See Cocktail Assay "Antiviral"	Human Plasma	10-10,000 ng/mL	LC/MS/MS	0.1 mL	K ₃ EDTA	-20	Madison	Active	P1002.00
Ritonavir & Atazanavir	Human Plasma	10-10,000 ng/mL	LC/MS/MS	0.05 mL	K₃EDTA	-20	Madison	Active	P1012
Rivaroxaban	Human Plasma	0.5-500 ng/mL	LC/MS/MS	0.25 mL	K ₂ EDTA	-20	Madison	Active	P1014.00
Rizatriptan	Human Plasma	0.2-200 ng/mL	LC/MS/MS	0.05 mL	K ₃ EDTA	-20	Madison	Active	P845.00
Ropinirole	Human Plasma	10-5,000 pg/mL	LC/MS/MS	0.2 mL	Sodium Heparin	-20	Madison	Active	P736.01
Rosiglitazone (N-Desmethylrosiglitazone)	Human Plasma	1-500 ng/mL 1-500 ng/mL	LC/MS/MS	0.05 mL	K ₃ EDTA	-20	Richmond	Active	LCMS322.1
Rosiglitazone	Human Plasma	2-1,000 ng/mL	LC/MS/MS	0.05 mL	K ₃ EDTA	-20	Richmond	Active	LCMS322
Rosiglitazone	Rat Plasma	2-1,000 ng/mL	LC/MS/MS	0.05 mL	K ₂ EDTA	-20	Richmond	Active	LCMS322.2
Rosuvastatin	Human Plasma	0.1-100 ng/mL	LC/MS/MS	0.2 mL	K ₂ EDTA	-70	Richmond	Active	LCMSC393
Rosuvastatin (N-Desmethylrosuvastatin)	Human Plasma	0.1-100 ng/mL 0.05-50 ng/mL	LC/MS/MS	0.25 mL	K ₃ EDTA	-70	Madison	Active	P922.03
(Salicylic Acid)	Human Plasma	1-50 µg/mL	HPLC/UV	0.2 mL	Lithium Heparin	-20	Madison	Active	P383.00
	Dog Plasma	1-50 µg/mL	HPLC/UV	0.2 mL	Sodium Heparin	-70	Richmond	Inactive	LC261.1
Acetylsalicylic Acid (Salicylic Acid)	Human Plasma	0.02-10 µg/mL 0.1-50 µg/mL	LC/MS/MS	0.05 mL	Potassium Oxalate/Sodium Fluoride	-70	Richmond	Active	LCMSC425

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Salmeterol	Human Plasma	1-100 pg/mL	LC/MS/MS	1.0 mL	Potassium Oxalate/Sodium Fluoride	-20	Madison	Active	P798.00
Salmeterol & Fluticasone	Human Plasma	1-200 pg/mL 1-200 pg/mL	LC/MS/MS	1.0 mL	Potassium Oxalate/Sodium Fluoride	-20	Madison	Active	P988
Selegiline (N-Desmethylselegiline) (Amphetamine) (Methamphetamine) (Phenethylamine)	Human Plasma	0.01-5 ng/mL 0.04-20 ng/mL 0.05-25 ng/mL 0.05-25 ng/mL 0.01-5 ng/mL	LC/MS/MS	0.1 mL	Sodium Heparin	-20	Madison	Active	P985.00
Sertraline	Human Plasma	0.2-80 ng/mL	LC/MS/MS	0.5 mL	Sodium Heparin	-20	Madison	Active	P570.01
Sertraline (Desmethylsertraline)	Human Plasma	0.5-200 ng/mL 0.5-200 ng/mL	LC/MS/MS	0.25 mL	Sodium Heparin	-20	Richmond	Active	LCMS98.1
Sildenafil (Desmethylsildenafil)	Human Plasma	1-1,000 ng/mL 1-1,000 ng/mL	LC/MS/MS	0.25 mL	Sodium Heparin & K ₃ EDTA	-70	Richmond	Active	LCMS231
Simvastatin (Simvastatin Acid)	Human Plasma	0.1-50 ng/mL 0.1-50 ng/mL	LC/MS/MS	0.25 mL	Sodium Heparin	-70	Richmond	Active	LCMSC367
	Human Plasma	0.1-50 ng/mL 0.1-50 ng/mL	LC/MS/MS	0.1 mL	Sodium Heparin	-70	Madison	Active	P980.00
Solifenacin	Human Plasma	0.1-25 ng/mL	LC/MS/MS	0.1 mL	K ₃ EDTA	-20	Madison	Active	P950.00
Sotalol	Human Plasma	10-2,000 ng/mL	HPLC/FL	0.5 mL	EDTA	-20	Madison	Active	P403.01
Sparfloxacin	Human Plasma	0.025-20 µg/mL	HPLC/UV	0.5 mL	Sodium Heparin	-20	Richmond	Active	LC332

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Sufentanil	Human Plasma	1.0-250 pg/mL	LC/MS/MS	0.5 mL	K ₂ EDTA	-70	Richmond	Active	LCMSC239
	Human Urine	5.0-1,000 pg/mL	LC/MS/MS	0.25 mL	None	-70	Richmond	Active	LCMSC239.1
Sumatriptan	Human Plasma	0.2-100 ng/mL	LC/MS/MS	0.25 mL	K ₃ EDTA	-20	Richmond	Active	LCMS174
	Pig Plasma	0.2-100 ng/mL	LC/MS/MS	0.25 mL	K ₂ EDTA	-20	Richmond	Active	LCMS174.3
Sunitinib (N-Desethylsunitinib)	Human Plasma	0.1-50 ng/mL 0.1-50 ng/mL	LC/MS/MS	0.05 mL	K ₂ EDTA	-20	Richmond	Active	LCMSC457
T3	Human Serum	0.25-8 ng/mL	RIA	0.2 mL	None	-20	Richmond	Active	ICD86
T4	Human Serum	1-32 µg/dL	RIA	0.05 mL	None	-20	Richmond	Active	ICD87
Tacrolimus	Human Whole Blood	0.25-100 ng/mL	LC/MS/MS	0.25 mL	K ₃ EDTA	-20	Richmond	Active	LCMS356
Tamsulosin	Human Plasma	0.05-25 ng/mL	LC/MS/MS	0.5 mL	Sodium Heparin	-20	Madison	Active	P682.02
Tamsulosin	Dog Plasma	0.05-25 ng/mL	LC/MS/MS	0.5 mL	Sodium Heparin	-20	Madison	Active	P750.01
	Pig Plasma	0.05-25 ng/mL	LC/MS/MS	0.5 mL	Sodium Heparin	-20	Madison	Active	P969.00
Telmisartan	Human Plasma	2-1,000 ng/mL	LC/MS/MS	0.05 mL	K ₂ EDTA	-20	Richmond	Active	LCMSC408
Tenofovir & Emtricitabine	Human Plasma	5-1,000 ng/mL 20-4,000 ng/mL	LC/MS/MS	0.05 mL	K ₂ EDTA	-20	Richmond	Active	LCMSC 468
	Human Plasma	5-1,000 ng/mL 20-4,000 ng/mL	LC/MS/MS	0.05 mL	K ₂ EDTA	-20	Madison	Active	P947.00

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Terfenadine (Fexofenadine)	Human Plasma	0.05-50 ng/mL 0.5-500 ng/mL	LC/MS/MS	0.5 mL	Sodium Heparin	-20	Madison	Active	P473.01
Terazosin	Human Plasma	0.5-200 ng/mL	HPLC/FL	0.3 mL	Sodium Heparin	-20	Richmond	Inactive	LC270
Terconazole	Balb/c Mouse Plasma	1-100 ng/mL	LC/MS/MS	0.025 mL	K ₃ EDTA	-20	Richmond	Active	LCMSC217.1
Testosterone (Dihydrotestosterone)	Human Serum	50–10,000 pg/mL 50 -10,000 pg/mL	LC/MS/MS	0.15 mL	None	-20	Richmond	Active	LCMSC260.6
Testosterone, Free (unbound)	Human Serum Ultrafiltrate	1-200 pg/mL	LC/MS/MS	0.2 mL	None	-20	Richmond	Active	LCMSC247
Theophylline	Human Plasma	0.05-25 µg/mL	HPLC/UV	0.5 mL	Sodium Heparin	-20	Richmond	Inactive	LC9
	Human Serum	0.05-25 µg/mL	HPLC/UV	0.5 mL	None	-20	Richmond	Inactive	LC9.1
TNF-α	Human Serum	15.6-1,000 pg/mL	ELISA	0.4 mL	None	-20	Richmond	Active	ICD134
Tobramycin	Human Plasma	10-400 ng/mL	LC/MS/MS	0.1 mL	Sodium Heparin	-20	Madison	Active	P790.00
Tobramycin	Human Urine	100-20,000 ng/mL	LC/MS/MS	0.05 mL	None	-20	Madison	Active	P769.01
Tolbutamide	Human Plasma	0.1-100 µg/mL	LC/MS/MS	0.05 mL	Sodium Heparin	-20	Richmond	Active	LCMSB226
Tolbutamide (Carboxytolbutamide) (4-Hydroxytolbutamide)	Human Urine	5-1,000 ng/mL 0.6-300 µg/mL 0.3-150 µg/mL	LC/MS/MS	0.02 mL	None	-20	Madison	Active	P738.01
	Human Plasma	0.1-100 µg/mL 5-5,000 ng/mL 2.5-2,500 ng/mL	LC/MS/MS	0.1 mL	Sodium Heparin	-20	Madison	Active	P737.02

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Topiramate	Human Plasma	10-10,000 ng/mL	LC/MS/MS	0.1mL	K ₂ EDTA	-20	Richmond	Active	LCMS470
Topiramate (See Cocktail Assay "Epilepsy")	Human Plasma	0.1-50 µg/mL	LC/MS/MS	0.1 mL	Sodium Heparin	-70	Madison	Active	P837.00
Topotecan, Total	Human Plasma	0.1-25 ng/mL	LC/MS/MS	0.05 mL	Sodium Heparin	-70	Richmond	Active	LCMSD507
Topotecan Lactone	Human Plasma	0.02-5 ng/mL	LC/MS/MS	0.2 mL	Sodium Heparin	-70	Richmond	Active	LCMSD504
Trastuzumab aka Herceptin	Human Serum	10-200 µg/mL	ELISA	0.2 mL	None	-70	Richmond	Active	ICD178
	Human Plasma	10-100 µg/mL	ELISA	0.1 mL	EDTA	-20	Richmond	Active	ICD178.1
Triamcinolone	Human Plasma	0.01-2.5 ng/mL	LC/MS/MS	0.25 mL	K ₃ EDTA	-70	Richmond	Active	LCMSC315
	Human Plasma	1-1,000 ng/mL	LC/MS/MS	0.1 mL	K ₃ EDTA	-70	Richmond	Active	LCMSC315.1
Triamterene (Hydroxytriamterene Sulfate)	Human Plasma	0.5-100 ng/mL 5-1,000 ng/mL	HPLC/FL	0.5 mL	Sodium Heparin	-20	Richmond	Inactive	LC109
Triamterene (Hydroxytriamterene Sulfate)	Human Urine	0.10-5 µg/mL 1-50 µg/mL	HPLC/FL	0.1 mL	None	-20	Richmond	Inactive	LC109.1
TSH	Human Serum	0.250-64 µIU/mL	RIA (IRMA)	0.4 mL	None	-20	Richmond	Inactive	ICD179
Valganciclovir (Ganciclovir)	Human Plasma	1-500 ng/mL 10-5,000 ng/mL	LC/MS/MS	0.05 mL	Sodium Citrate	-70	Richmond	Active	LCMSC410
Valproic Acid	Human Plasma	2-100 µg/mL	LC/MS/MS	0.05 mL	Sodium Heparin	-20	Madison	Active	P885.00
Venlafaxine (O-Desmethylvenlafaxine)	Human Plasma	2-200 ng/mL 2-200 ng/mL	LC/MS/MS	0.5 mL	Sodium Heparin	-20	Richmond	Active	LCMS531

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Verapamil (Norverapamil)	Human Plasma	1-500 ng/mL 1-500 ng/mL	HPLC/FL	1.0 mL	Sodium Heparin	-20	Madison	Inactive	P072.02
Verapamil Enantiomers (Norverapamil Enantiomers)	Human Plasma	0.5-250 ng/mL 0.5-250 ng/mL	LC/MS/MS	0.4 mL	Sodium Heparin	-20	Madison	Active	P671.00
Voriconazole (Voriconazole-N-Oxide)	Human Plasma	10-5,000 ng/mL 10-5,000 ng/mL	LC/MS/MS	0.1 mL	Sodium Heparin	-20	Madison	Active	P968.00
Warfarin Enantiomers, (unbound)	Human Plasma Ultrafiltrate	0.5-25 ng/mL 0.5-25 ng/mL	LC/MS/MS	0.05 mL	EDTA	-20	Madison	Active	P921.00
Warfarin Enantiomers	Human Serum	5-1,000 ng/mL 5-1,000 ng/mL	LC/MS/MS	0.5 mL	None	-20	Madison	Inactive	P381.01
	Human Plasma	5-1,000 ng/mL 5-1,500 ng/mL	LC/MS/MS	0.25 mL	Sodium Heparin	-20	Richmond	Active	LCMSB194
Warfarin Enantiomers	Human Plasma	5-1,500 ng/mL 5-1,500 ng/mL	LC/MS/MS	0.2 mL	Sodium Heparin	-20	Madison	Active	P807.01
S-warfarin (7-OH-S-warfarin)	Human Plasma	5-1,500 ng/mL 5-1,000 ng/mL	LC/MS/MS	0.2 mL	Sodium Citrate	-20	Madison	Active	P832.00
Zolpidem	Human Plasma	0.5-500 ng/mL	LC/MS/MS	0.05 mL	K ₂ EDTA	-20	Madison	Active	P844.01
Zonisamide	Human Plasma	10-5,000 ng/mL	LC/MS/MS	0.25 mL	K ₃ EDTA	-20	Richmond	Active	LCMS313
	Human Serum	10-5,000 ng/mL	LC/MS/MS	0.25 mL	None	-20	Richmond	Active	LCMS313.1

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