



LIST OF VALIDATED METHODS MAY 2009

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
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	LC12.1r1
	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	-80	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
	Human Plasma	0.20-20 ng/mL	LC/MS/MS	1.0 mL	Sodium Heparin	-20	Madison	Active	P478.01

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Albuterol	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	Active	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	P335.05
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
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	-80	Richmond	Active	LCMS141
	Human Plasma	50-25,000 ng/ml	LC/MS/MS	0.1 mL	K ₃ EDTA	-80	Richmond	Active	LCMS141.2
Atenolol	Human Plasma	5-1,000 ng/mL	HPLC/FL	0.5 mL	Sodium Heparin	-20	Richmond	Active	LC7r3
	Human Whole Blood	10-1,000 ng/mL	HPLC/FL	1.0 mL	Sodium Heparin	-20	Madison	Inactive	P161.01

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Aripiprazole (Dehydroaripiprazole)	Human Plasma	0.5-250 ng/mL 0.1-50 ng/mL	LC/MS/MS	0.25 mL	K ₃ 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	-80	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	-80	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	-80	Richmond	Active	LCMS120.3
Azithromycin	Human Plasma	2.5-1,000 ng/mL	LC/MS/MS	0.1 mL	K ₃ EDTA	-20	Richmond	Inactive	LCMS168
Azidothymidine (AZT)	Human Plasma	50-25,000 ng/mL	HPLC/UV	0.25 mL	Sodium Heparin	-20	Richmond	Inactive	LC96r1.1
	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	-80	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

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Bicalutamide	Human Plasma	10-1,250 ng/mL	LC/MS/MS	0.05 mL	K ₃ EDTA	-20	Richmond	Active	LCMS318
Bisoprolol	Human Plasma	0.3-200 ng/mL	HPLC/FL	0.5 mL	Sodium Heparin	-20	Madison	Active	P436.00
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	P942.00
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

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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	-80	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	-80	Madison	Active	P959.00
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	P789.00
Cefaclor	Human Plasma	0.1-25 µg/mL	HPLC/UV	0.5 mL	Sodium Heparin	-80	Richmond	Active	LC305

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Cefadroxil	Human Serum	0.25-50 µg/mL	HPLC/UV	0.10 mL	None	-80	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
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 Serum	0.025-10 µg/mL	HPLC/FL	0.25 mL	None	-20	Richmond	Inactive	LC265
	Human Plasma	25-10,000 ng/mL	LC/MS/MS	0.05 mL	K ₃ EDTA	-20	Richmond	Active	LCMS176
Ciprofloxacin	Rhesus Monkey Plasma	0.025-10 µg/mL	HPLC/FL	0.25 mL	Sodium Heparin	-20	Richmond	Inactive	LC265.3

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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	Human Plasma	20-10,000 ng/mL 5-2,500 ng/mL	LC/MS/MS	0.1 mL	Sodium Heparin	-20	Richmond	Active	LCMSB179
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	LCMS271v2
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	P919.00
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	-80	Richmond	Active	LCMSC 472
	Human Serum	1-500 ng/mL	LC/MS/MS	0.05 mL	None	-80	Richmond	Active	LCMSD472.1

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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	-80	Richmond	Active	LCMSC 471
Cyclophosphamide	Human Plasma	0.25-50 μ g/mL	HPLC/UV	0.25 mL	Sodium Heparin	-20	Richmond	Active	LC232r2
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	LC18r2
Daunorubicin (Daunorubicinol)	Human Plasma	5-200 ng/mL 5-200 ng/mL	HPLC/FL	0.5 mL	Sodium Heparin	-20	Richmond	Active	LC301v2
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
Dextromethorphan	Human Plasma	10 -5,000 pg/mL	LC/MS/MS	0.5 mL	Sodium Heparin	-20	Madison	Active	P732.01
Dextromethorphan (Dextrorphan)	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	P668.03

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Dextromethorphan (Dextrorphan)	Human Urine	0.001-1.0 µg/mL 0.020-20 µg/mL	LC/MS/MS	0.05 mL	None	-20	Madison	Active	P600.03
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	P617.00
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	-80	Richmond	Active	ICD11.1
	Human Serum	0.15-8 ng/mL	RIA	0.1 mL	None	-80	Richmond	Active	ICD11.3
	Human Urine	1-40 ng/mL	RIA	0.1 mL	None	-80	Richmond	Active	ICD11.2
	Human Plasma	0.1-4 ng/mL	RIA	0.4 mL	EDTA	-80	Richmond	Active	ICD11.4
	Human Plasma	0.1-50 ng/mL	LC/MS/MS	0.1 mL	K ₂ EDTA	-20	Richmond	Active	LCMSC455.1
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

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Doxazosin	Human Plasma	0.05-50 ng/mL	HPLC/FL	1.0 mL	Sodium Heparin	-20	Richmond	Inactive	LC266
Doxepin (Nordoxepin)	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	-80	Richmond	Active	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	HPLC/UV	0.1 mL	Sodium Heparin	-20	Richmond	Active	LC346
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
	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
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	Active	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 (Norepinephrine)	Human Plasma	0.01-4 ng/mL 0.01-4 ng/mL	HPLC/FL	1.0 mL	K ₃ EDTA	-20	Madison	Active	P552
Erlotinib	Human Plasma	10-10,000 ng/mL	LC/MS/MS	0.05 mL	Sodium Heparin	-20	Richmond	Active	LCMSC390

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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	Active	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	-80	Richmond	Active	LCMSC233
	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	-80	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	-80	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	Active	LCMSC248.1
	Human Plasma	2.5 – 250 pg/mL 5 – 500 pg/mL	LC/MS/MS	0.5 mL	K ₃ EDTA	-80	Richmond	Active	LCMSC248
β-Estradiol, Total**	Human Serum	0.025-10 ng/mL	LC/MS/MS	0.1 mL	None	-80	Richmond	Active	LCMS295
Estrone Sulfate	Human Serum	50-5,000 pg/mL	LC/MS/MS	0.5 mL	None	-80	Richmond	Active	LCMS27.1
Estrone & Equilin, Total**	Human Plasma	0.05-25 ng/mL 0.05-25 ng/mL	LC/MS/MS	0.2 mL	K ₃ EDTA	-80	Richmond	Active	LCMSC241

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Estrone & Equilin, Total**	Human Plasma	10-5,000 pg/mL 10-5,000 pg/mL	LC/MS/MS	0.5 mL	K ₃ EDTA	-80	Richmond	Active	LCMSC351
	Human Serum	10-5,000 pg/mL 10-5,000 pg/mL	LC/MS/MS	0.5 mL	None	-80	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
Ethinyl Estradiol & Norgestrel	Human Plasma	2-500 pg/mL 50-25,000 pg/mL	LC/MS/MS	0.5 mL	Potassium Oxalate/Sodium Fluoride	-80	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
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	1.0-500 ng/mL	LC/MS/MS	0.1 mL	K ₂ EDTA	-20	Richmond	Active	LCMSC440
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	LCMSC186.5
	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	P869.00

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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	P624.01
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	-80	Richmond	Active	LCMSC173
	Human Plasma	1.0-500 pg/mL	LC/MS/MS	1.0 mL	Potassium Oxalate/Sodium Fluoride	-20	Madison	Active	P817.01
Fluvoxamine	Human Plasma	0.5-500 ng/mL	LC/MS/MS	0.1 mL	Sodium Heparin	-20	Madison	Active	P658.00

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Formoterol	Human Plasma	0.5-250 pg/mL	LC/MS/MS	0.5 mL	Lithium Heparin with Eserine hemisulfate	-20	Madison	Active	P860.01
	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	Active	LC56r3
	Human Plasma	0.05-50 µg/mL	HPLC/UV	0.5 mL	Sodium Heparin and EDTA	-20	Madison	Inactive	P115.00
Glimepiride	Human Plasma	2-1,000 ng/mL	LC/MS/MS	0.1 mL	K ₃ EDTA	-20	Richmond	Active	LCMSB266
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

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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	5-1,000 ng/mL	HPLC/FL	0.5 mL	Sodium Heparin	-20	Madison	Active	P063.04
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	P919.00
Haloperidol	Human Plasma	0.025-10 ng/mL	LC/MS/MS	0.2 mL	Sodium Heparin	-80	Richmond	Inactive	LCMS95
Herceptin	Human Serum	10-200 µg/mL	ELISA	0.2 mL	None	-80	Richmond	Active	ICD178
	Human Plasma	10-100 µg/mL	ELISA	0.1 mL	EDTA	-20	Richmond	Active	ICD178.1
Hydrochlorothiazide	Human Urine	0.1-25 µg/mL	HPLC/UV	0.5 mL	None	-20	Madison	Active	P152.02
	Human Plasma	2-250 ng/mL	HPLC/UV	1.0 mL	Sodium Heparin	-20	Madison	Active	P156.01
	Dog Plasma	25-10,000 ng/mL	HPLC/UV	0.1 mL	Sodium Heparin	-20	Madison	Inactive	P054.03
	Dog Urine	0.5-100 µg/mL	HPLC/UV	0.5 mL	None	-20	Madison	Inactive	P113.00
	Monkey Plasma	25-10,000 ng/mL	HPLC/UV	0.1 mL	Sodium Heparin	-20	Madison	Active	P394.00
	Rat Plasma	25-10,000 ng/mL	HPLC/UV	0.1 mL	Sodium Heparin	-20	Madison	Active	P107.02
	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	LCMSB205v2
	Human Urine	0.1-25 µg/mL	LC/MS/MS	0.05 mL	None	-20	Richmond	Active	LCMSB205.3

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Hydrocodone (Hydromorphone)	Human Plasma	0.1-100 ng/mL 0.05-50 ng/mL	LC/MS/MS	0.5 mL	Sodium Heparin	-20	Richmond	Inactive	LCMS100
	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
	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	Active	P046.04
IFN Gamma	Human Serum	31.3-1,000 pg/mL	ELISA	0.2 mL	None	-80	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	-80	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
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	Active	P409.01

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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	P476.00
Ivermectin B1a	Equine Plasma	0.5-50 ng/mL	HPLC/FL	0.5 mL	Sodium Heparin	-20	Madison	Active	P575.01
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	P457.00
	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	0.500-500 ng/mL 0.500-500 ng/mL	LC/MS/MS	0.2 mL	Sodium Heparin	-20	Madison	Active	P663.01
Ketoconazole	Human Plasma	0.05-5 µg/mL	LC/MS/MS	0.1 mL	Sodium Heparin	-20	Richmond	Active	LCMSB202v2
	Human Plasma	0.05-10 µg/mL	HPLC/UV	1.0 mL	Sodium Heparin	-20	Madison	Active	P437.03
Ketoprofen	Human Plasma	1-500 ng/mL	LC/MS/MS	0.1 mL	Sodium Heparin	-20	Richmond	Active	LCMSB162
	Human Plasma	0.1-50 ng/mL	LC/MS/MS	0.4 mL	Sodium Heparin	-20	Madison	Active	P747.01

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Ketoprofen	Mini Pig	0.1-50 ng/mL	LC/MS/MS	0.1 mL	Sodium Heparin	-20	Madison	Active	P821.00
Ketoprofen, and Total**	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	P768.00
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	LC269r2
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	P896.00
Leucovorin Diastereomers (6S-5-Methyltetrahydrofolic Acid Diastereomers)	Human Serum	0.5-250 µg/mL 0.1-50 µg/mL	LC/MS/MS	0.05 mL	None	-80	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	P811.01
Levodopa & Carbidopa	Human Plasma	5-2,500 ng/mL 0.5-250 ng/mL	LC/MS/MS	0.2 mL	K ₃ EDTA	-80	Madison	Active	P838.00

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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	-80	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
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
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

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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	-80	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	LCMSB153
	Human Plasma	2-2,000 ng/mL	LC/MS/MS	0.05 mL	K₂EDTA	-20	Richmond	Active	LCMSB153.5
	Human Urine	10-10,000 µg/mL	HPLC/UV	0.05 mL	None	-20	Richmond	Active	LC251.1r1
	Dog Plasma	1-1,000 ng/mL	LC/MS/MS	0.1 mL	K ₃ EDTA	-20	Richmond	Active	LCMSB153.4
Methadone	Human Plasma	0.1-50 ng/mL	LC/MS/MS	0.2 mL	K ₃ EDTA	-20	Richmond	Active	LCMS323
Methadone	Human Urine	25-1,000 ng/mL	HPLC/UV	1.0 mL	None	-20	Richmond	Inactive	LC238.2

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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	-80	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
	Human Plasma	0.1-50 ng/mL 2.0-1,000 ng/mL	LC/MS/MS	0.1 mL	Sodium Heparin	-20	Madison	Active	P689.01
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

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Compound (Metabolite)	Matrix	Calibration Range	Method	Sample Volume	Anti-Coagulant	Storage Temp ° C	Lab Site	Method Status*	Method I.D.
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	Active	LCMS228r2
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	P594.04
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
	Human Urine	0.05-50 ng/mL 2-2,000 ng/mL	LC/MS/MS	0.2 mL	None	-20	Madison	Active	P870.00
Minocycline	Human Plasma	0.02-10 µg/mL	HPLC/UV	0.5 mL	Sodium Heparin	-20	Richmond	Active	LC63r1
Minocycline	Human Serum	0.02-10 µg/mL	HPLC/UV	0.5 mL	None	-20	Richmond	Active	LC63.1v3
	Human Saliva	0.02-10 µg/mL	HPLC/UV	0.5 mL	None	-20	Richmond	Active	LC63.5

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Minocycline	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	1-250 pg/mL	LC/MS/MS	1.0 mL	K ₃ EDTA	-20	Richmond	Active	LCMSD345
	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	P919.00
Moxifloxacin	Human Plasma	25-5,000 ng/mL	HPLC/UV	0.25 mL	Sodium Heparin	-20	Richmond	Active	LC335
	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	P942.00
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	HPLC/FL	0.1 mL	Sodium Heparin	-20	Richmond	Active	LC72r1
	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	-80	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, nicotinamide, or nicotinic acid</i> (Nicotinuric acid) (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	-80	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
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
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

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Norelgestromin <i>aka 17-desacetyl norgestimate</i>	Human Plasma	0.02-10 ng/mL	LC/MS/MS	0.5 mL	Potassium Oxalate/Sodium Fluoride	-80	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	-80	Richmond	Active	LCMSC256
Octreotide	Human Plasma	0.025-25 ng/mL	LC/MS/MS	0.5 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
	Rabbit Plasma	1-100 ng/mL	LC/MS/MS	0.1 mL	K ₃ EDTA	-80	Richmond	Active	LCMSC296.3
Olanzapine (Desmethylolanzapine)	Human Plasma	0.05-50 ng/mL 0.1-100 ng/mL	LC/MS/MS	0.3 mL	Sodium Heparin	-20	Richmond	Active	LCMS84r3
Omeprazole	Human Plasma	1-1,000 ng/mL	LC/MS/MS	0.1 mL	Sodium Heparin	-20	Richmond	Active	LCMSB131
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	P749.03
Omeprazole (5-Hydroxyomeprazole)	Equine Plasma	1-1,000 ng/mL 1-1,000 ng/mL	LC/MS/MS	0.1 mL	Sodium Heparin	-20	Madison	Active	P822.00
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

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Oxcarbazepine (10-Hydroxycarbamazapine (MHD)) (10,11-Dihydroxycarbamazapine (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	-80	Madison	Active	P743.00
Oxcarbazepine	Human Plasma	0.1-5 µg/mL	LC/MS/MS	0.1 mL	Sodium Heparin	-80	Madison	Active	P850.00
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	-80	Richmond	Active	LCMS 411
Oxycodone	Human Plasma	0.1-100 ng/mL	LC/MS/MS	0.5 mL	K ₃ EDTA	-20	Madison	Active	P649.00
Oxymorphone	Human Plasma	10-1,000 pg/mL	LC/MS/MS	0.5 mL	K ₃ EDTA	-20	Madison	Active	P820.01
Paclitaxel (Taxol ®)	Human Plasma	5-1,000 ng/mL	LC/MS/MS	0.1 mL	Sodium Heparin	-80	Richmond	Active	LCMS163r2
	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
	Human Plasma	0.25-50 ng/mL	LC/MS/MS	0.2 mL	Sodium Heparin K ₃ EDTA	-20	Madison	Active	P776.00
Pemoline	Human Plasma	25-5,000 ng/mL	HPLC/UV	0.2 mL	Sodium Heparin	-20	Richmond	Inactive	LC258r1
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
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	-80	Madison	Active	P806.01

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Phenylephrine (Phenylephrine Glucuronide) (3-Hydroxymandelic acid)	Human Plasma	1.0-1,000 ng/mL	LC/MS/MS	0.05 mL	Lithium Heparin	-80	Richmond	Active	LCMS257
	Human Urine	100-5,000 ng/mL	LC/MS/MS	0.05 mL	None	-80	Madison	Active	P958.00
	Human Urine	2.0-200 ng/mL 2.0-200 ng/mL	LC/MS/MS	0.2 mL	None	-80	Madison	Active	P956.00
	Human Urine	100-5,000 ng/mL	LC/MS/MS	0.05 mL	None	-80	Madison	Active	P957.00
Phenylephrine	Human Plasma	10-2,500 pg/mL	LC/MS/MS	0.25 mL	Lithium Heparin	-80	Richmond	Active	LCMSC392.1
	Human Plasma	10-2,500 pg/mL	LC/MS/MS	0.25 mL	K ₃ EDTA	-80	Madison	Active	P898.00
Phenylpropranolamine	Human Plasma	5-1,000 ng/mL	HPLC/UV	0.5 mL	Sodium Heparin	-20	Richmond	Inactive	LC181
	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, 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	P742.01
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	P639.00
	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	P642.00
(5-Hydroxyphenytoin), Total**	Human Urine	1-200 µg/mL	HPLC/UV	0.05 mL	None	-20	Madison	Active	P643.00

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Pravastatin	Human Plasma	0.5-250 ng/mL	LC/MS/MS	0.25 mL	Sodium Heparin	-20	Richmond	Active	LCMS47r3
Praziquantel	Dog Serum	10-5,000 ng/mL	HPLC/UV	0.5 mL	None	-20	Madison	Active	P342.02
	Cat Serum	10-5,000 ng/mL	HPLC/UV	0.5 mL	None	-20	Madison	Active	P370.04
	Feline Plasma	10-4,000 ng/mL	LC/MS/MS	0.05 mL	Sodium Heparin	-20	Madison	Active	P831.01
Prednisolone	Human Plasma	1-1,000 ng/mL	LC/MS/MS	0.5 mL	K ₂ EDTA	-20	Madison	Active	P895.00
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
Pregabalin	Human Plasma	20-20,000 ng/mL	LC/MS/MS	0.5 mL	K₂EDTA	-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	LC306r1
Progesterone	Human Plasma	0.05-50 ng/mL	LC/MS/MS	0.1 mL	K ₂ EDTA	-80	Richmond	Active	LCMSC431
Propranolol (4-Hydroxypropranolol)	Human Plasma	0.5-250 ng/mL 0.5-250 ng/mL	LC/MS/MS	0.1 mL	Sodium Heparin	-80	Richmond	Active	LCMSB191
	Human Urine	1-250 ng/mL 1-250 ng/mL	LC/MS/MS	0.25 mL	None	-80	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	-80	Richmond	Active	LCMSB281.2
Pseudoephedrine	Human Plasma	2.5-500 ng/mL	LC/MS/MS	0.1 mL	Sodium Heparin	-20	Richmond	Active	LCMSB201

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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	P617.00
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	Active	LC330.1
Ramipril (Ramiprilat)	Human Plasma	0.05-50 ng/mL 0.05-50 ng/mL	LC/MS/MS	0.25 mL	K ₃ EDTA	-80	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	P934.00
Repaglinide	Human Plasma	0.2-200 ng/mL	LC/MS/MS	0.1 mL	K ₂ EDTA	-20	Richmond	Active	LCMS460
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	P587.03
Rifampin	Human Plasma	0.1-10 µg/mL	LC/MS/MS	0.05 mL	Sodium Heparin	-20	Madison	Active	P941.00
Risperidone (9-Hydroxyrisperidone)	Human Plasma	0.1-100 ng/mL 0.1-100 ng/mL	LC/MS/MS	0.1 mL	Sodium Heparin	-20	Richmond	Inactive	LCMS128
	Human Urine	1-300 ng/mL 1-300 ng/mL	LC/MS/MS	0.2 mL	None	-20	Madison	Active	P362.01
Risperidone (9-Hydroxyrisperidone)	Human Plasma	0.1-60 ng/mL 0.1-60 ng/mL	LC/MS/MS	0.5 mL	Sodium Heparin	-20	Madison	Active	P528.01

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	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	-80	Richmond	Active	LCMS210.2
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
	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	-80	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	-80	Madison	Active	P922.02
(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	-80	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	-80	Richmond	Active	LCMSC425
Salmeterol	Human Plasma	1-100 pg/mL	LC/MS/MS	1.0 mL	Potassium Oxalate/Sodium Fluoride	-20	Madison	Active	P798.00

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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 0.0412-5.03 ng/mL	LC/MS/MS	1.0 mL	Sodium Heparin	-20	Madison	Active	P666.00
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	-80	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	-80	Richmond	Active	LCMSC367
Simvastatin (Simvastatin Acid)	Human Plasma	0.1-50 ng/mL 0.1-50 ng/mL	LC/MS/MS	0.25 mL	Sodium Heparin	-80	Madison	Active	P892.00
Solfenacin	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
Sufentanil	Human Plasma	1.0-250 pg/mL	LC/MS/MS	0.5 mL	K ₂ EDTA	-80	Richmond	Active	LCMSC239
	Human Urine	5.0-1,000 pg/mL	LC/MS/MS	0.25 mL	None	-80	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

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MAY 2009**

Compound (Metabolite)	Matrix	Calibration Range	Method	Sample Volume	Anti-Coagulant	Storage Temp ° C	Lab Site	Method Status*	Method I.D.
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	P682.00
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
Tenofovir & Emtricitabine	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
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	Active	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

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Theophylline	Human Plasma	0.05-25 µg/mL	HPLC/UV	0.5 mL	Sodium Heparin	-20	Richmond	Active	LC9r3
	Human Serum	0.05-25 µg/mL	HPLC/UV	0.5 mL	None	-20	Richmond	Active	LC9.1r1
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
	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	P738.00
Tolbutamide (Carboxytolbutamide) (4-Hydroxytolbutamide)	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	P737.01
Topiramate	Human Plasma	10-10,000 ng/mL	LC/MS/MS	0.1mL	K ₂ EDTA	-20	Richmond	Active	LCMS470
Triamcinolone	Human Plasma	0.01-2.5 ng/mL	LC/MS/MS	0.25 mL	K ₃ EDTA	-80	Richmond	Active	LCMSC315
	Human Plasma	1-1,000 ng/mL	LC/MS/MS	0.1 mL	K ₃ EDTA	-80	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
	Human Urine	0.10-5 µg/mL 1-50 µg/mL	HPLC/FL	0.1 mL	None	-20	Richmond	Inactive	LC109.1

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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	-80	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	HPLC/FL	0.5 mL	Sodium Heparin	-20	Richmond	Active	LC328
Verapamil (Norverapamil)	Human Plasma	1-500 ng/mL 1-500 ng/mL	HPLC/FL	1.0 mL	Sodium Heparin	-20	Madison	Active	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
Warfarin Enantiomers	Human Plasma	5-1,000 ng/mL 5-1,500 ng/mL	LC/MS/MS	0.25 mL	Sodium Heparin	-20	Richmond	Active	LCMSB194
	Human Plasma	5-1,500 ng/mL 5-1,500 ng/mL	LC/MS/MS	0.2 mL	Sodium Heparin	-20	Madison	Active	P807.00

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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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