

List of Validated Bioanalytical Methods at XBL

Compound (Metabolite)	Matrix	Sample Volume	Calibration Range
9-NC and 9-AC	Human Urine	2 mL	0.2 - 20 ng/mL
9-NC and 9-AC	Rat Plasma	100 µL	0.5 - 50 ng/mL
9-NC and 9-AC	Rabbit Plasma	250 µL	0.5 - 50 ng/mL
9-NC and 9-AC	Dog Plasma	500 µL	0.2 - 20 ng/mL
9-NC and 9-AC	Human Plasma	500 µL	0.2 - 20 ng/mL
Abamectin	Sheep Plasma	200 µL	0.5 - 300 ng/mL
Acetaminophen	In Vitro Media	200 µL	50 - 10000 nM
Albuterol	Human Plasma	400 µL	2 - 600 pg/mL
Amprenavir	Rat Plasma	50 µL	10 - 5000 ng/mL
Beclomethasone	Rat Plasma	100 µL	0.5 - 200 ng/mL
Beclomethasone Dipropionate and Beclomethasone-17-Propionate	Human Plasma	200 µL	10 - 2500 (BDP), 20 - 5000 pg/mL (17-BMP)
Beclomethasone Dipropionate and Beclomethasone-17-Propionate	Human Plasma	500 µL	10 - 2500 (BDP), 20 - 5000 pg/mL (17 - BMP)
Budesonide	Human Plasma	500 µL	10 - 2000 pg/mL
Caffeine and paraxanthine	Human Plasma	50 µL	25-10,000 ng/mL
Carbamazepine and Carbamazepine-10,11-epoxide	Human Plasma	50 µL	20 -5,000 ng/mL for Carbamazepine, and 10 - 2,500 ng/mL for Carbamazepine-10,11-epoxide
Caffeine and paraxanthine	Human Plasma	50 µL	25-10,000 ng/mL
Citalopram	Human Plasma	1 mL	0.2 - 100 ng/mL
Clopidogrel/Clopidogrel Carboxylic Acid/Aspirin	Human Plasma	200 µL	0.5 - 100 ng/mL /10 - 2000 ng/mL/monitor
Clozapine	Human Plasma	1 mL	0.2 - 20 ng/mL
Cyclosporine A	Human Blood	50 µL	5 - 1000 ng/mL
Decitabine	Human Plasma	200 µL	1 - 100 ng/mL
Desirudin	Human Plasma	500 µL	5 - 3000 ng/mL

Compound (Metabolite)	Matrix	Sample Volume	Calibration Range
Dextromethorphan and Dextrorphan	Human Plasma	50 µL	0.1 - 50 ng/mL for Dextromethorphan, 1 - 500 ng/mL for Dextrorphan
Diltiazem, N-Desmethyl Diltiazem and Desacetyl Diltiazem	Human Plasma	50 µL	2 - 1000 ng/mL for Diltiazem, 0.5 - 250 ng/mL for N-Desmethyl Diltiazem and Desacetyl Diltiazem
Efavirenz	Human Plasma	50 µL	10 - 5000 ng/mL
Eptifibatide	Human Plasma	200 µL	2.5 - 500 ng/mL
Florfenicol Amine	Beef Muscle	NA	0.025 to 0.5 ppm
Fluticasone Propionate	Human Plasma	1 mL	3 - 1000 pg/mL
Fluticasone Propionate	Human Plasma	1 mL	3 - 100 pg/mL
Fluticasone Propionate	Human Plasma	600 µL	1 - 200 pg/mL
Fluticasone Propionate	Human Plasma	150 µL	2 - 200 pg/mL
Fluticasone Propionate	Human Plasma	500 µL	0.4 - 200 pg/mL
Fluvoxamine	Human Plasma	50 µL	0.5 - 500 ng/mL
Formoterol	Human Urine	2 mL(Method I), 1mL(Method II)	10 - 1250 pg/mL
Formoterol	Human Plasma	500 µL	0.4 - 100 pg/mL
Formoterol	Human Plasma	500 µL	0.4 - 40 pg/mL
Glimepiride	Human Plasma	1 mL	0.2 - 100 ng/mL
Glipizide	Human Plasma	400 µL	2 - 500 ng/mL
Glucose	Human Plasma	100 µL	0.1 - 5 mg/mL
Guanfacine	Human Plasma	500 µL	0.05 - 020 ng/mL
Iohexol	Human Serum	50 µL	0.5 - 250 µg/mL
Irinotecan,SN-38*	Mouse, Rat Plasma	100 µL	0.05 - 25 ng/mL for low range and 50 - 15000 ng/mL for high range
Ketoconazole	Human Plasma	50 µL	
Ketorolac (R&S)	Human Plasma	500 µL	10 - 1000 ng/mL (Ketorolac) 0.1 - 50 ng/mL (ORG-41793)
Leuprolide	Dog Serum	200 µL	0.1 - 50 ng/mL

Compound (Metabolite)	Matrix	Sample Volume	Calibration Range
Leuprolide	Rat Serum	100 µL	0.1 - 50 ng/mL
Leuprolide	Human Serum	500 µL/100 µL	0.05 - 50 ng/mL/0.1 - 50 ng/mL
Lisdexamfetamine	Human Plasma	100 µL	1-250 ng/mL for Lisdexamfetamine, 2-500 ng/mL for Amphetamine
Metformin	Human Plasma	100 µL	5 - 2500 ng/mL
Metformin	Human Urine	100 µL	5 - 2500 ng/mL
Metformin	Human Urine	50 µL	5 - 2500 µg/mL
Methotrexate, 7 Hydroxy Methotrexate	Human Urine	100 µL	1 - 500 ng/mL
Midazolam and 1-OH Midazolam	Human Plasma	100 µL	0.1 - 20 ng/mL
Moxifloxacin	Human Plasma	50 µL	20-4000 ng/mL
Naftifine	Human Plasma	200 µL	0.02 - 10 ng/mL
Naftifine	Mini-Pig Plasma	200 µL	0.05 - 35 ng/mL
Naftifine	Human Urine	200 µL	1 - 1000 ng/mL
Nebivolol (chiral)	Rat Plasma	100 µL	0.05 - 20 ng/mL
Nebivolol (chiral)	Mouse Plasma	100 µL	0.05 - 20 ng/mL
Nebivolol (chiral)	Dog Plasma	100 µL	0.05 - 20 ng/mL
Nebivolol (chiral)	Guinea Pig Plasma	100 µL	0.05 - 20 ng/mL
Nebivolol (Total)	Mouse Plasma	100 µL	0.05 - 20 ng/mL
Nebivolol (Total)	Rat Plasma	100 µL	0.05 - 20 ng/mL
Nebivolol (Total)	Dog Plasma	100 µL	0.05 - 20 ng/mL
Octreotide*	Rat Plasma	200 µL	0.05 - 25 ng/mL
Nebivolol (Total)	Guinea Pig Plasma	100 µL	0.05 - 20 ng/mL
Omeprazole and 5-OH Omeprazole	Human Plasma	50 µL	2 - 1000 ng/mL
Ondansetron	Human Plasma	1 mL	0.1 - 100 ng/mL
Orntide	Human Serum	200 µL	0.1 - 50 ng/mL
Orntide	Rat Serum	100 µL	1 - 500 ng/mL

Compound (Metabolite)	Matrix	Sample Volume	Calibration Range
Oxycodone/Noroxycodone/oxycodone/noroxycodone	Human Plasma	250 µL	0.1 - 10 ng/mL/0.1 - 10 ng/mL/0.02-2 ng/mL/0.1 - 10 ng/mL
Oxytetracycline	Tissues Bovine, Sheep	NA	0.5 - 120 ng/mL
Paclitaxel	Human Plasma	100 µL	1 - 250 ng/mL
Paclitaxel	Rat Plasma	100 µL	1-1000 ng/mL
Paclitaxel	Rat Plasma	100 µL	01214: 1 - 250 ng/mL; 03203: 0.2 - 100 ng/mL and 0.2 - 2000 ng/mL
Paclitaxel	Human Plasma	100 µL	1-1000 ng/mL
Paclitaxel, 6- α - and 3'-p-hydroxypaclitaxel	Human Plasma	200 µL	1-200/.25-50/.05-50 ng/mL
Paliperidone	Human Plasma	100 µL	0.1 - 40 ng/mL
<i>p</i> -Aminohippuric Acid	Human Urine	50 µL	0.2 - 100 µg/mL
<i>p</i> -Aminohippuric Acid	Human Plasma	50 µL	0.2 - 100 µg/mL
Paroxetine	Human Plasma	200 µL	0.1 - 50 and 1 - 500 ng/mL
Pyrimethamine	Human Plasma	100 µL	1 - 200 ng/mL
Repaglinide	Human Plasma	200 µL	0.02 - 10 ng/mL
Ribavirin	Human Plasma	100 µL	5 - 500 ng/mL
Rifampicin	Human Plasma	50 µL	20 - 4000 ng/mL
Risperidone and 9-OH Risperidone*	Rat Plasma	100 µL	0.1 - 50 ng/mL
Salmeterol	Human Plasma	200 µL	4 - 800 pg/mL
Salmeterol	Human Plasma	500 µL	4 - 800 pg/mL
Salmeterol	Human Plasma	500 µL	0.5 - 250 pg/mL
Sertaconazole	Rat Plasma	100 µL	0.01 - 7.5 ng/mL
Sulphasalazine and Sulfpyridine	Human Plasma	50 µL	10.0 - 10,000 ng/mL for Sulphasalazine and 10.0 to 5,000 ng/mL for Sulfpyridine
Telbivudine	Human Plasma	100 µL	10 - 5000 ng/mL
Terbinafine	Human Plasma	1 mL	0.1 - 50 ng/mL
Testosterone*	Rat Serum	100 µL	50 - 10,000 pg/mL
Thalidomide	Monkey, Rabbit Plasma	100 µL	5 - 1000 ng/mL

Compound (Metabolite)	Matrix	Sample Volume	Calibration Range
Tin-Mesoporphyrin	Human Plasma	100 µL	5 - 500 ng/mL
Tin-Mesoporphyrin	Rabbit Plasma	100 µL	10 - 5000 ng/mL
Tin-Mesoporphyrin	Rat Plasma, Dog Plasma	100 µL (dog) 50µL (rat)	10 - 5000 ng/mL
Tin-Mesoporphyrin	Human, Dog, Rat Plasma	100 µL	5 - 1000 ng/mL for human, 5 - 50000 ng/mL for dog and rat
Tiotropium Bromide	Human Plasma	500 µL	0.5 - 250 pg/mL
Tiotropium Bromide	Human Urine	100 µL	10 - 5000 pg/mL
Tolbutamide, Hydroxy Tolbutamide and 4-Carboxy Tolbutamide	Human Plasma	50 mL	100 - 50000 ng/mL for Tolbutamide, 2.5 - 1250 ng/mL for Hydroxy Tolbutamide, 5 - 2500 ng/mL for 4 - Carboxy Tolbutamide
Triamcinolone	Placebo	200 µL	5 - 250 and 250 - 5000 ng/mL
Triclosan	Human Plasma, Urine	100 µL	10 - 300 ng/mL, 300 - 2000 ng/mL
Verapamil	Human Plasma	100 µL	1 - 500 ng/mL
Virginiamycin	porcine liver, kidney, muscle and	NA	25 - 1000 ppb
Zolpidem	Human Plasma	1 mL	0.1 - 20 ng/mL
4'-Hydroxydiclofenac (OH-Dic)	In Vitro Media	200 µL	50 - 10000 nM
4'-Hydroxymephenytoin (OH-Mep)	In Vitro Media	200 µL	50 - 10000 nM
1'-Hydroxybufuralol (OH-buf)	In Vitro Media	200 µL	1 - 200 nM
1'-Hydroxymidazolam (OH-Mid)	In Vitro Media	200 µL	10 - 2000 nM
6 beta-Hydroxytestosterone (OH-Tes)	In Vitro Media	200 µL	100 - 20,000 nM
Hydroxybupropion (OH-Bup)	In Vitro Media	200 µL	5 - 1000 nM
6-Hydroxychlorzoxazone (OH-Chl)	In Vitro Media	200 µL	50 - 10,000 nM
6 alpha-Hydroxypaclitxel (OH-Pac)	In Vitro Media	200 µL	5 - 1000 nM
7 Analyte-Combo Assay (Ace+OH-Buf+OH-Dic+OH-Mep+OH-Mid+OH-Tes+OH-Bup)	In Vitro Media	200 µL	Ace+OH-Dic (50-10,000); OH-Buf (1-200); OH-Mid (10-2000); OH-Mep+OH-Bup (5-1000); OH-Tes (100-20,000)
*Qualified Only			