

## LIST OF GLP-VALIDATED BIOANALYTICAL METHODS

Updated: JUL- 2019

COMPOUND	TECHNIQUE	LLOQ	MATRIX
Acetylsalicylic acid	LC-MS/MS	2 ng/mL	Human Plasma
Acyclovir	LC-MS/MS	1 ng/mL	Human Plasma
Altrenogest	LC-MS/MS	0.5 ng/mL	Porcine Plasma
5-Aminosalicylic acid and N-acetyl-5-aminosalicylic acid	HPLC-FL	50 ng/mL	Human Plasma
Ambrisentan	LC-MS/MS	20 ng/mL	Human Plasma
5-Aminosalicylic acid and N-acetyl-5-aminosalicylic acid	LC-MS/MS	10 ng/mL	Porcine Plasma
Amlodipine	LC-MS/MS	0.1 ng/mL	Human Plasma
Amoxicillin	LC-MS/MS	25 ng/mL	Human Plasma
Amoxicillin	LC-MS/MS	25 µg/Kg	Porcine Muscle
Amoxicillin	LC-MS/MS	25 µg/Kg	Porcine Kidney
Amoxicillin	LC-MS/MS	25 µg/Kg	Porcine Liver
Amoxicillin	LC-MS/MS	25 µg/Kg	Porcine Fat plus Skin
Amoxicillin	LC-MS/MS	25 µg/Kg	Bovine Muscle
Amoxicillin	LC-MS/MS	2 µg/Kg	Bovine milk
Ampicillin	LC-MS/MS	25 µg/Kg	Porcine Muscle
Ampicillin	LC-MS/MS	25 µg/Kg	Porcine Kidney
Ampicillin	LC-MS/MS	25 µg/Kg	Ovine Muscle
Ampicillin	LC-MS/MS	25 µg/Kg	Ovine Kidney
Azithromycin	LC-MS/MS	10 ng/mL	Human Plasma
Cefadroxil	HPLC-UV	5 µg/mL	Human Plasma
(R)-Bevantolol and (S)-Bevantolol	UHPLC-MS/MS	5 ng/mL	Human Plasma
Ceftriaxone	LC-MS/MS	2 µg/mL	Human Plasma
Cetirizine	LC-MS/MS	1 ng/mL	Human Plasma

COMPOUND	TECHNIQUE	LLOQ	MATRIX
8-Chlorotheophylline	LC-MS/MS	1 ng/mL	Human Plasma
Cilastatin	LC-MS/MS	10 µg/mL	Human Urine
Cilastatin	LC-MS/MS	10 µg/mL	Human Plasma
Ciprofloxacin	LC-MS/MS	50 ng/mL	Human Plasma
Ciprofloxacin	LC-MS/MS	25 µg/Kg	Porcine Muscle
Ciprofloxacin	LC-MS/MS	25 µg/Kg	Bovine Muscle
Citalopram and desmethylcitalopram	LC-MS/MS	1 / 0.5 ng/mL	Human Plasma
Clavulanic acid	LC-MS/MS	10 ng/mL	Human Plasma
Clavulanic acid	LC-MS/MS	100 µg/kg	Bovine Milk
Closantel	LC-MS/MS	1 µg/mL	Ovine plasma
Clozapine	LC-MS/MS	1 ng/mL	Human Plasma
Colistin (A and B)	LC-MS/MS	75 µg/Kg	Porcine Muscle
Colistin (A and B)	LC-MS/MS	100 µg/Kg	Porcine Kidney
Colistin (A and B)	LC-MS/MS	75 µg/Kg	Bovine Muscle
Colistin (A and B)	LC-MS/MS	100 µg/Kg	Bovine Kidney
Colistin (A and B)	LC-MS/MS	25 µg/Kg	Bovine Milk
Colistin (A and B)	LC-MS/MS	75 µg/Kg	Ovine Muscle
Colistin (A and B)	LC-MS/MS	100 µg/Kg	Ovine Kidney
Cyclosporine A	UHPLC-MS/MS	0.1 ng/mL	Human Whole Blood
Desloratadine	LC-MS/MS	0.1 ng/mL	Human Plasma
Desmopressin	LC-MS/MS	0.1 ng/mL	Human Plasma
Dexamethasone	LC-MS/MS	1 µg/Kg	Bovine Liver
Dexamethasone	LC-MS/MS	0.15 ng/mL	Bovine Milk
Dextromethorphan and dextrorphan	LC-MS/MS	1 ng/mL	Human Urine
Diphenhydramine	LC-MS/MS	0.2 ng/mL	Human Plasma
Donepezil	LC-MS/MS	0.1 ng/mL	Human Plasma
Doxycycline	LC-MS/MS	0.1 µg/mL	Poultry Plasma

COMPOUND	TECHNIQUE	LLOQ	MATRIX
Doxycycline	LC-MS/MS	25 µg/Kg	Poultry Muscle
Doxycycline	LC-MS/MS	150 µg/Kg	Poultry Kidney
Doxycycline	LC-MS/MS	75 µg/Kg	Poultry Liver
Doxycycline	LC-MS/MS	75 µg/Kg	Poultry Fat plus Skin
Ebastine and Carebastine	LC-MS/MS	0.05 / 1 ng/mL	Human Plasma
Eberconazole	LC-MS/MS	1 ng/mL	Human Plasma
Enalapril and enalaprilate	LC-MS/MS	0.5 ng/mL	Human Plasma
Enrofloxacin	LC-MS/MS	25 µg/Kg	Porcine Muscle
Enrofloxacin	LC-MS/MS	25 µg/Kg	Bovine Muscle
(s)-Equol	LC-MS/MS	5 ng/mL	Human Plasma
Erythromycin	LC-MS/MS	20 µg/kg	Bovine Milk
Erythromycin	LC-MS/MS	20 µg/kg	Ovine Milk
Erythromycin	LC-MS/MS	15 ng/mL	Human Plasma
Estradiol	RIA/CLIA	5/20 pg/mL	Human Serum
Famotidine	LC-MS/MS	1 ng/mL	Human Plasma
Finasteride	LC-MS/MS	0.5 ng/mL	Human Plasma
Fluconazole	HPLC-UV	0.1 µg/mL	Human Plasma
Fluconazole	LC-MS/MS	1 ng/mL	Ovine Plasma
Fluconazole	LC-MS/MS	1 ng/mL	Ovine Vaginal fluid
Flunarizine	LC-MS/MS	0.15 ng/mL	Human Plasma
Fluoxetine	LC-MS/MS	0.2 ng/mL	Human Plasma
FSH	CLIA	0.803 mIU/mL	Human Serum
Furosemide	LC-MS/MS	25 ng/mL	Human Plasma
Goserelin	LC-MS/MS	0.05 ng/mL	Human Plasma
HTB (trifusal metabolite)	LC-MS/MS	0.5 µg/mL	Human Plasma
Hydrochlorothiazide	LC-MS/MS	2 ng/mL	Human Plasma
Hydroxychloroquine	LC-MS/MS	2 ng/mL	Human Plasma
Ibuprofen	LC-MS/MS	0.1 µg/mL	Human Plasma

COMPOUND	TECHNIQUE	LLOQ	MATRIX
Interferon (alpha)	ELISA	15.63 pg/mL	Human serum
Iron	Colorimetric	10 µg/dL	Human Serum
Isoflavones (daidzein, genistein, glycitein)	LC-MS/MS	5/10/ 2 ng/mL	Human Plasma
Isoniazid/ N-acetylisoniazid	LC-MS/MS	0.1 µg/mL	Human Plasma
Ivermectin	LC-MS/MS	0.1 ng/mL	Dog Plasma
Ketoprofen	LC-MS/MS	1 ng/mL	Porcine plasma
Ketorolac	LC-MS/MS	10 ng/mL	Human Plasma
Lansoprazole	LC-MS/MS	1 ng/mL	Human Plasma
Leuprorelin	LC-MS/MS	0.1 ng/mL	Human Plasma
Levetiracetam	LC-MS/MS	0.1 µg/mL	Human Plasma
LH	CLIA	0.586 mIU/mL	Human Serum
Levodopa	LC-MS/MS	50 ng/mL	Human Plasma
Lincomycin	LC-MS/MS	50 µg/Kg	Porcine Muscle
Lincomycin	LC-MS/MS	750 µg/Kg	Porcine Kidney
Lincomycin	LC-MS/MS	250 µg/Kg	Porcine Liver
Lincomycin	LC-MS/MS	25 µg/Kg	Porcine Fat plus Skin
Lincomycin	LC-MS/MS	50 µg/Kg	Bovine Muscle
Lincomycin	LC-MS/MS	750 µg/Kg	Bovine Kidney
Lincomycin	LC-MS/MS	250 µg/Kg	Bovine Liver
Lincomycin	LC-MS/MS	25 µg/Kg	Bovine Fat
Lisinopril	LC-MS/MS	0.25 ng/mL	Human Plasma
Loperamide	LC-MS/MS	0.1 ng/mL	Human Plasma
Loratadine and descarboetoxyloratadine	LC-MS/MS	0.1 ng/mL	Human Plasma
Losartan and Losartan carboxy acid	LC-MS/MS	4 ng/mL	Human Plasma
Medroxyprogesterone acetate	LC-MS/MS	0.025 ng/mL	Human Plasma
Medroxyprogesterone acetate	LC-MS/MS	0.25 ng/mL	Dog Plasma

COMPOUND	TECHNIQUE	LLOQ	MATRIX
Melatonin	LC-MS/MS	10 pg/mL	Human Plasma
Melatonin	LC-MS/MS	10 pg/mL	Ovine Plasma
6-Mercaptopurine	LC-MS/MS	0.5 ng/mL	Human Plasma
Meropenem	LC-MS/MS	5 µg/mL	Human Plasma
4-Methylaminoantipyrin	LC-MS/MS	25 µg/kg	Bovine Milk
Montelukast	LC-MS/MS	0.5 ng/mL	Human Plasma
Midazolam	LC-MS/MS	0.1 ng/mL	Human Plasma
Nitrendipine	LC-MS/MS	0.1 ng/mL	Human Plasma
Norfloxacin	LC-MS/MS	50 ng/mL	Human Plasma
Olanzapine	LC-MS/MS	0.1 ng/mL	Human Plasma
Omeprazole and 5-hydroxyomeprazole	LC-MS/MS	1 / 25 ng/mL	Human Plasma
Ondansetron	LC-MS/MS	2 ng/mL	Human Plasma
Octreotide	LC-MS/MS	0.05 ng/mL	Human Plasma
Paracetamol	LC-MS/MS	0.05 µg/mL	Human Plasma
Penicillin G	LC-MS/MS	2 ng/mL	Bovine Plasma
Penicillin G	LC-MS/MS	2 ng/mL	Porcine Plasma
Pentoxifylline and hydroxypentoxifylline	LC-MS/MS	5 ng/mL	Human Plasma
Piperacillin	LC-MS/MS	25 µg/mL	Human Plasma
Prednisolone	LC-MS/MS	3 µg/kg	Bovine milk
Progesterone	CLIA	0.2 ng/mL	Serum plasma
Quetiapine	LC-MS/MS	0.5 ng/mL	Human Plasma
Ramipril and Ramiprilate	LC-MS/MS	0.1 ng/mL	Human Plasma
Ranelic acid	LC-MS/MS	10 ng/mL	Human Plasma
Ranitidine	LC-MS/MS	5 ng/mL	Human Plasma
Rivaroxaban	LC-MS/MS	0.5 ng/mL	Human Plasma
Ribavirin	LC-MS/MS	50 ng/mL	Human Plasma

COMPOUND	TECHNIQUE	LLOQ	MATRIX
Risperidone and 9-hydroxy-risperidone	LC-MS/MS	0.1 ng/mL	Human Plasma
Risperidone and 9-hydroxy-risperidone	LC-MS/MS	0.1 ng/mL	Rat Plasma
Risperidone and 9-hydroxy-risperidone	LC-MS/MS	0.1 ng/mL	Dog Plasma
Risperidone and 9-hydroxy-risperidone	LC-MS/MS	0.1 ng/mL	Minipig Plasma
Romidepsin	LC-MS/MS	0.05 ng/mL	Human Plasma
Rupatadine and metabolites	LC-MS/MS	0.1 ng/mL	Human Plasma
Rupatadine and metabolites	LC-MS/MS	0.5 / 1 ng/mL	Human Urine
Silybinin (A and B) free and total	LC-MS/MS	1 / 2 ng/mL	Human Plasma
Somatostatin	RIA	3.9 pmol/L	Human Plasma
Somatostatin	RIA	7.8 pmol/L	Rabbit Plasma
Spectinomycin	LC-MS/MS	150 µg/Kg	Porcine Muscle
Spectinomycin	LC-MS/MS	2500 µg/Kg	Porcine Kidney
Spectinomycin	LC-MS/MS	500 µg/Kg	Porcine Liver
Spectinomycin	LC-MS/MS	250 µg/Kg	Porcine Fat plus Skin
Spectinomycin	LC-MS/MS	150 µg/Kg	Bovine Muscle
Spectinomycin	LC-MS/MS	2500 µg/Kg	Bovine Kidney
Spectinomycin	LC-MS/MS	500 µg/Kg	Bovine Liver
Spectinomycin	LC-MS/MS	250 µg/Kg	Bovine Fat
Strontium	ICP-MS	100 ng/mL	Human Plasma
Sumatriptan	LC-MS/MS	0.2 ng/mL	Human Plasma
Sunitinib	LC-MS/MS	0.2 ng/mL	Human Plasma
Thyroxine	RIA	1 µg/dL	Human Serum
Triiodothyronine	RIA	0.2 ng/mL	Human Serum
Torasemide	LC-MS/MS	1 ng/mL	Human Plasma
Torasemide	LC-MS/MS	1 ng/mL	Human Urine
Tramadol	LC-MS/MS	2 ng/mL	Human Plasma

COMPOUND	TECHNIQUE	LLOQ	MATRIX
(+)-Tramadol, (-)-Tramadol, O-Desmethyltramadol	LC-MS/MS	0.5 ng/mL	Human Plasma
Valsartan	LC-MS/MS	5 ng/mL	Human Plasma
Tranexamic acid	UHPLC-MS/MS	0.1 µg/mL	Human Plasma
Venlafaxine and O-Desmethyl- venlafaxine	LC-MS/MS	1 ng/mL	Human Plasma
Zinc	ICP-MS	50 µg/dL	Human Plasma
Zolpidem	LC-MS/MS	0.5 ng/mL	Human Plasma