

Determination of Analytes in Biological Samples

Analyte Name	Method	Matrix	LLOQ
Abiraterone	LC-MS/MS	Human plasma	1 ng/mL
Acetamide	GC-MS	Raw milk	2 µg/mL
Acetylcysteine	HPLC	Human plasma	
N-acetyl-D-leucine	LC-MS/MS	Human urine	100 ng/mL
N-acetyl-L-leucine	LC-MS/MS	Dog plasma	1 µg/mL
N-acetyl-L-leucine	LC-MS/MS	Rat plasma	250 ng/mL
N-acetyl-L-leucine	LC-MS/MS	Human plasma	0.1 µg/mL
N-acetyl-L-leucine	LC-MS/MS	Human urine	2 µg/mL
Acetylsalicylic acid	HPLC	Human plasma, plasma of farm animals	
Ademethionin	LC-MS/MS	Human plasma	20 ng/mL
Alendronate	LC-MS/MS	Human urine	5 ng/mL
Allopregnanolon	GC-MS	Human plasma, Human serum	1 pg/mL
Allopurinol	LC-MS/MS	Human plasma	20 ng/mL
Ambrisentan	LC-MS/MS	Human plasma	10 ng/mL
p-Amino benzoic acid	LC-MS/MS	Fermentation solution	5 ng/mL
5-Aminosalicylic acid / Ac-5- ASA	HPLC	Human plasma	
Amlodipine	LC-MS/MS	Human plasma	50 pg/mL
Amoxicillin	HPLC	Plasma and serum of farm animals	0.1 µg/mL
Amphotericin B	LC-MS/MS	Dissolution solution	20 ng/mL
Ampicillin	HPLC	Human plasma	0.1 µg/mL
Anagrelide	LC-MS/MS	Human plasma	40 ng/mL
Apovincaminic acid	LC-MS/MS	Human plasma	1 ng/mL
Aripiprazol	LC-MS/MS	Human plasma	0.5 ng/mL
Atovaquone	LC-MS/MS	Human plasma	15 ng/mL
Benzylpenicillin	HPLC	Pig/bovine muscle	1/8 MRL (6.25µg/kg)
Rac-Biotin	LC-MS/MS	Fermentation solution	5 ng/mL
Bosentan	LC-MS/MS	Human plasma	10 ng/mL

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Caffeine	HPLC	Human plasma	
Candesartan	HPLC	Human plasma	3 ng/mL
Carbamazepine	HPLC	Human plasma	
Carbazochrome	LC-MS/MS	Human plasma	0.07 ng/mL
Carbidopa	LC-MS/MS	Human plasma	5 ng/mL
Carbocisteine	LC-MS/MS	Human plasma	50 ng/mL
1-(3-Carboxypropyl)-3,7-dimethylxanthine	HPLC	Human plasma	0.03 µg/mL
1-(3-Carboxypropyl)-3,7-dimethylxanthine	HPLC	Human serum	0.03 µg/mL
Capecitabine und 5-DFCR	LC-MS/MS	Human plasma	0.05 µg/mL
Carprofen	HPLC	Horse plasma	0.1 µg/mL
Carprofen	HPLC	Horse serum	0.1 µg/mL
Carvedilol	HPLC	Human plasma	0.5 ng/mL
Cefaclor	HPLC	Human plasma	
Cefadroxil	HPLC	Human plasma	
Cefalexin	LC-MS/MS	Human plasma	0.25 µg/mL
Cefdinir	LC-MS/MS	Human plasma	10 ng/mL
Cefpodoxim	LC-MS/MS	Human plasma	20 ng/mL
Cefprozil	LC-MS/MS	Human plasma	150 ng/mL
Cefuroxim	HPLC	Human plasma	0.1 µg/mL
Chloramphenicol	HPLC	Plasma of farm animals	
Chlormadinone acetate / Chlormadinol	LC-MS/MS	Human plasma	0.05 ng/mL
Chlorpromazine	HPLC	Human plasma	
Chlortetracycline	HPLC	Plasma of farm animals	50 ng/mL
Ciprofloxacin	HPLC	Chicken plasma	0.05 µg/mL
Citalopram	HPLC	Human plasma	0.75 ng/mL
Clenbuterol	LC-MS/MS	Horse plasma	15 pg/mL
Clindamycin	LC-MS/MS	Plasma, urine	2.5 ng/mL

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Clindamycin	LC-MS/MS	tissue	2.5 ng/g
Clodronic acid	GC-MS	Horse plasma	0.1 µg/mL
Chlormadinone acetate (CMA)	LC-MS/MS	Human plasma	50 pg/mL
Clofibrate	HPLC	Human plasma	
Clomiphene	LC-MS	Human plasma	0.2 ng/mL
Codein	LC-MS	Human plasma, human serum	1 ng/mL
Cyanocobalamin	LC-MS/MS	Fermentation solution	5 ng/mL
Cytarabine	LC-MS/MS	Phosphate buffered saline	0.1 µM
Dabigatran (free and total)	LC-MS/MS	Human plasma	2.5 ng/mL
Daunorubicin	LC-MS/MS	Phosphate buffered saline	0.05 µM
Decitabine	LC-MS/MS	Rabbit plasma	0.5 ng/mL
Deferasirox	LC-MS/MS	Human plasma	0.25 µg/mL
Dehydroepiandrosterone (DHEA)	GC-MS	Human plasma, Human serum	0.5 ng/mL
Dembrexin	LC-MS/MS	Equine plasma	250 pg/mL
Desmethyl mebeverine acid	LC-MS/MS	Human plasma	10 ng/mL
3-desmethylthiocolchicine	LC-MS/MS	Human plasma	0.3 ng/mL
Desogestrel	LC-MS/MS	Human plasma	250 pg/mL
Dexamethason	LC-MS/MS	Human plasma	0.5 ng/mL
Dexketoprofen	LC-MS/MS	Human plasma	20 ng/mL
Dexpanthenol	LC-MS/MS	Skin extracts	
Diazepam	HPLC	Human plasma	
Diclofenac	LC-MS/MS	Human plasma	25 ng/mL
Dihydrotachysterol	HPLC	Human plasma	
Dihomo-γ-linolenic acid(DGLA)	GC-MS	Human plasma	3 µg/mL
Diosmetin	LC-MS/MS	Human plasma	1 ng/mL
Dodecyleat	GC-MS	Water	5 ng/mL
Donepezil	LC-MS/MS	Human plasma	0.2 ng/mL

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Doxepin / Nordoxepin (cis-trans)	HPLC	Human plasma	
Doxylamine succinate	HPLC	Human plasma	
Drospirenone	LC-MS/MS	Human plasma	2.5 ng/mL
Drotaverine	LC-MS/MS	Human plasma	2 ng/mL
Emtricitabine	LC-MS/MS	Human plasma	10 ng/mL
Enrofloxacin	HPLC	Chicken plasma	0.05 µg/mL
Entacapone	LC-MS/MS	Human plasma	25 ng/mL
Entecavir	LC-MS/MS	Human plasma	100 pg/mL
Ephedrine	HPLC	Human plasma	
Eprinomectine	HPLC	Plasma of farm animals	0.5 ng/mL
Esketamine	LC-MS/MS	Minipig plasma	0.2 ng/mL
Escitalopram	LC-MS/MS	Human plasma	0.2 ng/mL
Estradiol	LC-MS/MS	Serum	
Ethinylestradiol	GC-MS	Human plasma	8 pg/mL
Ethinylestradiol	LC-MS/MS	Human plasma	3 pg/mL
Ezetimibe (free and total)	LC-MS/MS	Human plasma	0.05 ng/mL
Ezetimibe phenoxy glucuronide	LC-MS/MS	Human plasma	1 ng/mL
Famotidine	LC-MS/MS	Human plasma	1 ng/mL
Fenipentol (Phenylpentanol)	GC-MS	Human plasma	
Fenofibrate	HPLC	Human plasma	0.2 µg/mL
Fingolimod	LC-MS/MS	Human whole blood	50 pg/mL
Flubendazol	HPLC	Diet mixture	10 µg/mL
Fluconazole	HPLC	Human plasma	0.1 µg/mL
Flurbiprofene	LC-MS/MS	Human plasma	200 ng/mL
Flutamide / Hydroxyflutamide	HPLC	Human plasma	
Fluticasone	LC-MS/MS	Human plasma,	5 pg/mL
Fluticasone	LC-MS/MS	Human serum	5 pg/mL

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Fluticasone	LC-MS/MS	Tissue of laboratory animals	1 ng/g
Folic acid	LC-MS/MS	Fermentation solution	5 ng/mL
Fosfomycin	LC-MS/MS	Human Plasma, Human urine	0.05 µg/mL
Furosemide	HPLC	Human plasma	
Gentamicine	LC-MS/MS	Tissue of animals	10 ng/mL
Gentamicine	LC-MS/MS	Tissue of animals	50 ng/mL
Gentamicine	LC-MS/MS	Human plasma	4 ng/mL
Gentamicine	LC-MS/MS	Human urine	50 ng/mL
Gentamicine	LC-MS/MS	Dissolution	25 ng/mL
Ginkgolides /Bilabolide	LC-MS/MS	Human plasma, Human serum	1 ng/mL
Glibenclamide	HPLC	Human plasma	
Gliclazide	HPLC	Human plasma	10 ng/mL
Glimepirid	LC-MS	Human plasma	10 ng/mL
Glucosinolate (Sinigrin, Gluconasturtiin, Glucotropaeolin)	HPLC	Human urine	
Glucose	GC-MS	Human serum and plasma	0.1 mg/mL
Hesperetin	LC-MS/MS	Human plasma	0.5 ng/mL
Hydrochinone metabolites	HPLC-FLD	Human urine	
Hydrochlorothiazide	LC-MS/MS	Human plasma	2.5 ng/mL
Hydrocortisone	LC-MS/MS	Human plasma	3 ng/mL
Hydrocortisone (free and total)	LC-MS/MS	Human urine	2 ng/mL
Hydroxymidazolam	LC-MS/MS	Human plasma	0.1 ng/mL
Hydroxypentoxifylline	HPLC	Human plasma	
Hydroxypentoxifylline	HPLC	Human serum	0.015 µg/mL
Ibandronate	LC-MS/MS	Human plasma	0.5 ng/mL
Ibuprofen (Enantiomers)	HPLC	Human plasma	
Imatinib	LC-MS/MS	Human plasma	30 ng/mL
Indapamide	LC-MS/MS	Human whole blood Lithium Heparin	0.25 ng/mL

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Indomethacine	HPLC	Human plasma	
Irbesartan	HPLC	Human plasma	0.05 µg/mL
Iron	UV	Diet mixture	
Ketoconazol	HPLC	Human plasma	0.1 µg/mL
3-Keto desogestrel	LC-MS/MS	Human plasma	25 pg/mL
Ketophenylbutazone	HPLC	Human plasma	
Levodopa and metabolites	HPLC	Human plasma	
Levodopa	LC-MS/MS	Human plasma	20 ng/mL
Levocloperastin	LC-MS/MS	Human plasma	0.1 ng/mL
Levonorgestrel	LC-MS/MS	Human plasma	25 pg/mL
Lincomycine	GC-MS	edible tissues of farm animals	Fat 6.25 µg/kg
Lincomycine	GC-MS	edible tissues of farm animals	Muscle 12.5 µg/kg
Lincomycine	GC-MS	edible tissues of farm animals	Liver 62.5 µg/kg
Lincomycine	GC-MS	edible tissues of farm animals	Kidney 187.5 µg/kg
Linolenic acid(GLA)	GC-MS	Human plasma	1 µg/ml
Lipoic acid	LC-MS/MS	Human plasma	50 ng/mL
Lipoic acid	LC-MS/MS	Fermentation solution	5 ng/mL
Lisinopril	LC-MS/MS	Human plasma	1 ng/mL
Lurasidone	LC-MS/MS	Human plasma	1 ng/mL
Meloxicame	LC-MS/MS	Milk, muscle of animals	
Memantine	LC-MS/MS	Human plasma	0.2 ng/mL
Metformin	LC-MS/MS	Human plasma	20 ng/mL
Methocarbamol	LC-MS/MS	Human plasma	0.05 µg/mL
N-Methylacetamide	GC-MS	Raw milk	0.1 µg/mL
Midazolam	LC-MS/MS	Human plasma	0.2 ng/mL
Montelukast	LC-MS/MS	Human plasma	2 ng/mL

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Analyte Name	Method	Matrix	LLOQ
Morphine	LC-MS/MS	Human plasma	0.5 ng/mL
Moxifloxacin	LC-MS/MS	Human plasma	50 ng/mL
Mycophenolic acid	HPLC	Human plasma	0.05 µg/mL
N-Acetyl-L-Cysteine	HPLC	Human plasma	
Naproxen	LC-MS/MS	Human plasma	500 ng/mL
Neomycine	LC-MS/MS	Human plasma	50 ng/mL
Neomycine	LC-MS/MS	Human urine	50 ng/mL
Neopterin	LC-MS/MS	Minipig serum	0.5 ng/mL
Nicethamide	HPLC	Human plasma	
Nicotinic acid	LC-MS/MS	Fermentation solution	5 ng/mL
Nimesulide	LC-MS/MS	Human plasma	0.05 µg/mL
Nimodipine	LC-MS/MS	Human tissue	
Nitrazepam	HPLC	Human plasma	
Norpseudoephedrine	HPLC	Human plasma	
Noscapin	HPLC	Human plasma	
1-Octene	GC-MS	Rat plasma and bone marrow	50 ng/mL
Olanzapine	LC-MS	Human plasma, Human serum	0.5 ng/mL
Ornidazol	HPLC	Human plasma	0.1 µg/mL
Oseltamivir	LC-MS/MS	Human plasma	0.5 ng/mL
Oxytetracycline	HPLC	Plasma of farm animals, edible tissues of farm animals	
Paliperidone	LC-MS/MS	Minipig Plasma	5 ng/mL
Pantothenic acid	LC-MS/MS	Fermentation solution	5 ng/mL
Paracetamol	LC-MS/MS	Human plasma	0.03 µg/mL
Paromomycin	LC-MS/MS	cell culture tissue	
Penicillin G	LC-MS/MS	tissue of farm animals	6.25 ng/g
Penicillin G	LC-MS/MS	Milk of farm animals	1 ng/mL
Penicillin G	LC-MS/MS	Plasma of farm animals	5 ng/mL

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Analyte Name	Method	Matrix	LLOQ
Penicillin V	HPLC	Plasma of farm animals, edible tissues of farm animals	
Pentoxifylline	HPLC	Human plasma	0.015 µg/mL
Perfluormethylcyclopentane	GC-MS	Human whole blood (Li-heparin)	10 ng/mL
Perindopril	LC-MS/MS	Human plasma	0.1 ng/mL
Petasine	LC-MS	Human plasma	0.1 ng/mL,
Petasine	LC-MS	Rat plasma	0.25 ng/mL
Phthalate	LC-MS/MS	Dissolution solution	20 ng/mL
Phenazone	HPLC	Human plasma	
Phenprocoumon	HPLC	Human plasma	
2-Phenylbutyric Acid	LC-MS/MS	Human plasma	10 ng/mL
Phenytoin	HPLC	Human plasma	
Pioglitazone	LC-MS/MS	Human plasma	2 ng/mL
Polymyxin	HPLC	Plasma and milk of farm animals, edible tissues of farm	
Posaconazole	LC-MS/MS	Human plasma	2 ng/mL
Prednisolone	HPLC	Cow Plasma	5 ng/mL
Prednisolone	HPLC	Edible tissues of farm animals	0.5 ng/g muscle, tissue and fat
Prednisolone	HPLC	Edible tissues of farm animals	1 ng/g liver and kidney
Prednisolone	GC-MS	Raw milk	0.5 ng/mL
Prednisone	LC-MS/MS	Human plasma	0.2 ng/mL
Pregnenolone	GC-MS	Human plasma, Human serum	1 pg/mL
Proflavine	HPLC	Human urine	
Progesteron	GC-MS	Human plasma, Human serum	0.1 ng/mL
Proguanil	LC-MS/MS	Human plasma	2.5 ng/mL
Promazine	HPLC	Human plasma, Human serum	0.5 ng/mL
Promethazine	HPLC	Human plasma	0.5 ng/ml
Propiverine	LC-MS/MS	Human plasma	0.5 ng/mL
Propranolol	HPLC	Human plasma	

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Analyte Name	Method	Matrix	LLOQ
Propafenone (Enantiomers)	HPLC	Human plasma	
Propofol	HPLC	Plasma of domestic animals	
Propyphenazone	HPLC	Human plasma	
Pyridoxine	LC-MS/MS	Fermentation solution	5 ng/mL
2-pyridyl acetic acid (2-PAA)	LC-MS/MS	Human plasma	5 ng/mL
Quetiapine	LC-MS/MS	Human plasma	1 ng/mL
Raloxifene	LC-MS/MS	Human plasma	0.027 ng/mL
Raloxifene-4-Glucuronide	LC-MS/MS	Human plasma	0.167 ng/mL
Raloxifene 6-Glucuronide	LC-MS/MS	Human plasma	0.174 ng/mL
Ramipril	LC-MS/MS	Human plasma	0.1 ng/mL
Ranitidine	HPLC	Human plasma	10 ng/mL
Rasagiline	LC-MS/MS	Human plasma	20 ng/mL
Repaglinide	LC-MS/MS	Human plasma	0.1 ng/mL
Riboflavin	LC-MS/MS	Fermentation solution	5 ng/mL
Risedronate	LC-MS/MS	Human plasma	0.1 ng/mL
Rivaroxaban	LC-MS/MS	Human plasma	2 ng/mL
Rivastigmine	LC-MS/MS	Human plasma	50 pg/mL
Rupatadine	LC-MS/MS	Human plasma	0.1 ng/mL
Salbutamol	LC-MS/MS	Human plasma	0.05 ng/mL
Salmeterol	LC-MS/MS	Human plasma, Human serum	2.5 pg/mL
Sildenafil	HPLC	Human plasma	10 ng/mL
Sitagliptin	LC-MS/MS	Human plasma	5 ng/mL
Spectinomycine	HPLC	Plasma	1 µg/mL
Sulbactam	HPLC	Human plasma	0.1 µg/mL
Sulfadiazine	HPLC	Human plasma	0.1 µg/mL
Sulfadiazine	HPLC	Food of farm animal	250 mg/kg
Sulfadimidine	HPLC	Food of farm animal	0.9 mg/g

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Sulfadoxin	HPLC	Plasma oder serum of farm animals	0.1 µg/mL
Sulfadoxin	HPLC	Tissue of farm animals,	
Sulfadoxin	HPLC	Water/milk substitute of farm animals	
Sulfadoxin	HPLC	Water	5 µg/mL
Sulfadimethoxin	HPLC	Plasma of farm animals	1 µg/mL
Sulfamerazine	HPLC	Plasma of farm animals	
Sulthiame	LC-MS/MS	Human plasma	20 ng/mL
Sumatriptan	HPLC	Human plasma	1 ng/mL
Sumatriptan	LC-MS/MS	Human plasma	0.5 ng/mL
Tetracycline	HPLC	Plasma	50 ng/mL
Tetrahydrodeoxycorticosterone(THDOC)	GC-MS	Human plasma,Serum	10 pg/mL
Tetrahydrodeoxycorticosterone(THDOC)	GC-MS	Human serum	10 pg/mL
Tenofovir	LC-MS/MS	Human plasma	10 ng/mL
Testosterone	LC-MS/MS	Human serum	0.1 ng/mL
Theobromine	HPLC	Human plasma	
Theophylline	HPLC	Human plasma	
Thiamine	LC-MS/MS	Fermentation solution	5 ng/mL
Tizanidine	LC-MS/MS	Human plasma	0.05 ng/mL
Tolperisone	LC-MS	Human plasma	
Thiorphan	LC-MS/MS	Human plasma	1 ng/mL
Tramadol	LC-MS/MS	Human plasma	5 ng/mL
Triamcinolone	HPLC	Human plasma	
Triamcinolone acetonid	HPLC	Human plasma	
Trimethoprim	HPLC	Plasma oder serum of farm animals,	0.01 µg/mL
Trimethoprim	HPLC	Tissue of farm animals,	6.25 µg/kg
Trimethoprim	HPLC	Water/milk substitute of farm animals,	1 µg/mL
Troxerutin	LC-MS/MS	Human plasma	0.082 ng/mL

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Tylosin	HPLC	Plasma oder serum of farm animals	0.025 µg/mL
Valproic acid	LC-MS/MS	Human plasma	0.5 µg/mL
Valsartan	LC-MS/MS	Human plasma	15 ng/mL
Vancomycine	LC-MS/MS	Tissues of farm animals	2.5 ng/mL
Vancomycine	LC-MS/MS	Human urine	10 ng/mL,
Vancomycine	LC-MS/MS	Human plasma	7.5 ng/mL
Vancomycine	LC-MS/MS	Dissolution solution	2.5 ng/mL
Verapamil / Norverapamil (Enantiomers)	HPLC	Human plasma	
Vildagliptin	LC-MS/MS	Human plasma	5 ng/mL
Vinpocetine	LC-MS/MS	Human plasma	0.1 ng/mL
Vinylcyclohexan	HS-GC/MS	aqueous solutions	20 ng/ml
Vinyldithiine	HPLC	Plasma of laboratory animals	
Warfarin (Enantiomers)	HPLC	Human plasma	