



Validated Assays List

Compound (Metabolite, Biomarker)	Matrix	Method	LLOQ	Status*
Abacavir	Plasma	LC-MS/MS	50 ng/mL	Active
Abacavir/ Lamivudine	Plasma	LC-MS/MS	50 ng/mL 50 ng/mL	Active
Abiraterone	Plasma	LC-MS/MS	0.2 ng/mL	Active
Acetaldehyde	Plasma	LC-MS/MS	10 ng/mL	Active
Acetaminophen / Chlorpheniramine	Plasma	LC-MS/MS	10 ng/mL 0.1 ng/mL	Active
Acetaminophen / Caffeine	Plasma	LC-MS/MS	10 ng/mL 100 ng/mL	Active
Acetylsalicylic acid / Salicylic acid	Plasma	LC-MS/MS	4 ng/mL 15 ng/mL	Active
Acotiamide	Plasma	LC-MS/MS	0.5 ng/ml	Active
Ademethionine	Plasma	LC-MS/MS	10 ng/mL	Active
Ambroxol	Plasma	LC-MS/MS	1 ng/mL	Active
Ambroxol / Cetirizine	Plasma	LC-MS/MS	1 ng/mL 4 ng/mL	Active
p-Aminosalicylic acid	Plasma	LC-MS/MS	50 ng/mL	Active
Amiodarone	Plasma	LC-MS/MS	3 ng/mL	Active
Amlodipine	Plasma	LC-MS/MS	0.2 ng/mL	Active
Amlodipine / Metoprolol	Plasma	LC-MS/MS	0.2 ng/mL 0.1 ng/mL	Active
Amlodipine / Perindopril	Plasma	LC-MS/MS	0.1 ng/mL 0.5 ng/mL	Active
Amlodipine / Telmisartan	Plasma	LC-MS/MS	0.2 ng/mL 2.5 ng/mL	Active
Amoxicilline / Clavulanic acid	Plasma	LC-MS/MS	100 ng/mL 50 ng/mL	Active
Anagrelide	Plasma	LC-MS/MS	50 pg/mL	Active
Anandamide	Plasma	LC-MS/MS	0.1 ng/mL	Active
Apixaban	Plasma	LC-MS/MS	1 ng/mL	Active
2-Arachidonoyl glycerol	Plasma	LC-MS/MS	0.5 ng/mL	Active
Arginine	Plasma	LC-MS/MS	4 µg/mL	Active

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Atazanavir	Plasma	LC-MS/MS	5 ng/mL	Active
Atenolol	Plasma	LC-MS/MS	3 ng/mL	Active
Atorvastatin	Plasma	LC-MS/MS	0.2 ng/mL	Active
Atorvastatin / ortho-Hydroxy Atorvastatin / para-Hydroxy Atorvastatin	Plasma	LC-MS/MS	100 pg/mL 100 pg/mL 10 pg/mL	Active
Atorvastatin / Valsartan	Plasma	LC-MS/MS	0.2 ng/mL 10 ng/ml	Active
Azacitidine	Plasma	LC-MS/MS	3 ng/ml	Active
Azithromycin	Plasma	LC-MS/MS	1 ng/ml	Active
Baclofen	Plasma	LC-MS/MS	5 ng/mL	Active
Bosentan	Plasma	LC-MS/MS	5 ng/mL	Active
Bicalutamide	Plasma	LC-MS/MS	10 ng/mL	Active
Bisoprolol	Plasma	LC-MS/MS	0.5 ng/mL	Active
Buspirone / 6-Hydroxy buspirone / 2-(1-Piperazinyl)pyrimidine (1-PP)	Plasma	LC-MS/MS	20/50pg/mL 0.5 ng/mL	Active
Capecitabine / 5-Fluorouracil	Plasma	LC-MS/MS	20 ng/mL 20 ng/mL	Active
Celecoxib	Plasma	LC-MS/MS	10 ng/mL	Active
Cetirizine (Levocetirizine)	Plasma	LC-MS/MS	1 ng/mL	Active
Chlorpromazine	Plasma	LC-MS/MS	1 ng/mL	Active
Choline	Plasma	LC-MS/MS	100 ng/mL	Active
Cilostazol	Plasma	LC-MS/MS	5 ng/mL	Active
Cinacalcet	Plasma	LC-MS/MS	0.1 ng/mL 0.05 ng/mL	Active
Ciprofloxacin	Plasma	LC-MS/MS	50 ng/mL	Active
Cisplatin	Plasma	LC-MS/MS	1 ng/mL	Active
Citalopram	Plasma	LC-MS/MS	0.3 ng/mL	Active
Clopidogrel / Carboxylic acid Clopidogrel	Plasma	LC-MS/MS	10 pg/ml 100 ng/mL	Active
Coenzyme Q₁₀ / reduced Coenzyme Q₁₀ (ubiquinol)/ Coenzyme Q₉	Plasma Tissue	LC-MS/MS	1 µg/mL	Active
Corticosterone	Urine	LC-MS/MS	5 ng/mL	Active
Cortineff	Urine	LC-MS/MS	1 ng/mL	Inactive

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Cortisol (6β-Hydroxycortisol)	Urine	LC-MS/MS	5 ng/mL	Active
Cortisone	Urine	LC-MS/MS	5 ng/mL	Active
Creamide	Plasma	LC-MS/MS	0.1 µg/mL	Active
Cycloserine	Plasma	LC-MS/MS	0.3 µg/mL	Active
Dabigatran free/total	Plasma	LC-MS/MS	0.5 ng/mL	Active
Dapoxetine	Plasma	LC-MS/MS	1 ng/mL	Active
Darunavir	Plasma	LC-MS/MS	50 ng/mL	Active
Dasatinib	Plasma	LC-MS/MS	1 ng/mL	Active
Deferasirox	Plasma	LC-MS/MS	0.05 µg/ml	Active
Desloratadin	Plasma	LC-MS/MS	50 pg/ml	Active
Dexamethasone	Urine	LC-MS/MS	1 ng/mL	Active
Dexketoprofen	Plasma	LC-MS/MS	50 ng/mL	Active
Diazoxide	Plasma	LC-MS/MS	20 ng/mL	Active
Diphenhydramine	Plasma	LC-MS/MS	0.5 ng/mL	Active
Diclofenac	Plasma	LC-MS/MS	5 ng/mL	Active
Diclofenac / Tolperisone	Plasma	LC-MS/MS	0.5 ng/mL	Active
Diosmetin / Hesperetin	Plasma	LC-MS/MS	1 ng/mL 1 ng/mL	Active
4-Dimethylaminopheno	Plasma	LC-MS/MS	1 ng/mL	Active
Docetaxel	Plasma	LC-MS/MS	2 ng/mL	Active
Dolutegravir	Plasma	LC-MS/MS	10 ng/mL	Active
Domperidone	Plasma	LC-MS/MS	0.2 ng/mL	Active
Dopamine	Plasma Urine	HPLC/ED	0.35 ng/mL	Active
Doxazosin	Plasma	LC-MS/MS	0.3 ng/mL	Active
Doxepin / N-Desmethyldoxepin	Plasma	LC-MS/MS	100 pg/ml 100 pg/ml	Active
Doxorubicin	Plasma Tissue	LC-MS/MS	0.5 ng/mL	Active
Doxylamine	Plasma	LC-MS/MS	0.2 ng/mL	Active

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Drospirenone	Plasma	LC-MS/MS	0.25 ng/mL	Active
Dutasteride / Tamsulosin	Plasma	LC-MS/MS	0.1/ 0.2 ng/mL	Active
Ebastine / Carebastine	Plasma	LC-MS/MS	0.1 ng/ml 1 ng/ml	Active
Efavirenz	Plasma	LC-MS/MS	100 ng/mL	Active
Eltrombopag	Plasma	LC-MS/MS	20 ng/mL	Active
Emtricitabine	Plasma	LC-MS/MS	20 ng/mL	Active
Emtricitabine / Tenofovir	Plasma	LC-MS/MS	10 ng/mL 4 ng/mL	Active
Enalapril	Plasma	LC-MS/MS	0.5 ng/mL	Active
Entecavir	Plasma	LC-MS/MS	0.1 ng/mL	Active
Epinephrine	Plasma Urine	HPLC/ED	0.2 ng/mL	Active
Eplerenone	Plasma	LC-MS/MS	25 ng/mL	Active
Eremomycin	Plasma	LC-MS/MS	50 ng/mL	Active
Estradiol (Unconjugated) / Estrone (Unconjugated)	Plasma	LC-MS/MS	5 pg/ml / 10 pg/ml	Active
Estrone (Total)	Plasma	LC-MS/MS	15 pg/mL	Active
Esomeprazole	Plasma	LC-MS/MS	1 ng/mL	Active
Ethinyl Estradiol	Plasma	LC-MS/MS	1 pg/ml	Active
Ethyl lysine	Plasma	LC-MS/MS	20 ng/mL	Active
Etonogestrel	Plasma	LC-MS/MS	50 pg/mL	Active
Etoricoxib	Plasma	LC-MS/MS	10 ng/mL	Active
Everolimus	Blood	LC-MS/MS	1 ng/ml	Active
Ezetimibe / Ezetimibe Glucuronide	Plasma	LC-MS/MS	0.1 ng/mL 1 ng/mL	Active
Febuxostat	Plasma	LC-MS/MS	50 ng/mL	Active
Fexofenadine	Plasma	LC-MS/MS	1 ng/mL	Active
Finasteride	Plasma	LC-MS/MS	0.5 ng/mL	Active
Fingolimod (FTY720)/ Fingolimod phosphate (FTY720-P)	Blood	LC-MS/MS	50 pg/mL 70 pg/mL	Active

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Fingolimod (FTY720)	Blood	LC-MS/MS	20 pg/mL	Active
Fluvoxamine	Plasma	LC-MS/MS	0.25 ng/mL	Active
Fosfomycin	Plasma	LC-MS/MS	1 mkg/ml	Active
Furazidin	Plasma	LC-MS/MS	3 ng/ml	Active
Gidazepam Desalkylgidazepam	Plasma	LC-MS/MS	10 ng/ml 4 ng/ml	Active
Gliclazide	Plasma	LC-MS/MS	20 ng/mL	Active
Glimepiride	Plasma	LC-MS/MS	1 ng/mL	Active
Homovanillic acid	Urine	HPLC/ED	10 ng/mL	Active
N-Hydroxycytidine (Molnupiravir metabolite)	Plasma	LC-MS/MS	1 ng/mL	Active
Ibandronic Acid	Plasma	LC-MS/MS	0.8 ng/mL	Active
Ibuprofen	Plasma	LC-MS/MS	200 ng/mL	Active
Indapamide	Plasma	LC-MS/MS	0.5 ng/mL	Active
Indapamide	Blood	LC-MS/MS	0.5 ng/mL	Active
Imatinib	Plasma	LC-MS/MS	5 ng/mL	Active
Inosine / Methionine / Nicotinamide	Plasma	LC-MS/MS	1/3 mkg/ml 200 ng/ml	Active
Irbesartan	Plasma	LC-MS/MS	5 ng/mL	Active
Itopride	Plasma	LC-MS/MS	5 ng/mL	Active
Ivabradine	Plasma	LC-MS/MS	0.5 ng/mL	Active
Ketorolac	Plasma	LC-MS/MS	10 ng/mL	Active
Kynurenine	Plasma	HPLC/UV	10 ng/mL	Inactive
Kynurenic acid	Plasma	HPLC/UV	20 ng/mL	Inactive
Lamotrigine	Plasma	LC-MS/MS	10 ng/mL	Active
Lenalidomide	Plasma	LC-MS/MS	1 ng/mL	Active
Lercanidipine	Plasma	LC-MS/MS	50 pg/ml	Active
Levetiracetam	Plasma	LC-MS/MS	200 ng/mL	Active
Levofloxacin	Plasma	LC-MS/MS	250 ng/mL	Active

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Levonorgestrel	Plasma	LC-MS/MS	0.1 ng/mL	Active
Lidocaine	Plasma	LC-MS/MS	1 ng/mL	Active
Linezolid	Plasma	LC-MS/MS	100 ng/mL	Active
Lipoic acid	Plasma	LC-MS/MS	5 ng/mL	Active
Lisinopril	Plasma	LC-MS/MS	5 ng/mL	Active
Losartan	Plasma	LC-MS/MS	5 ng/mL	Active
Losartan / Hydrochlorothiazide	Plasma	LC-MS/MS	1.5 ng/mL 1 ng/mL	Active
Loxoprofen	Plasma	LC-MS/MS	50 ng/mL	Active
Lysine / Acridone acetic acid	Plasma	LC-MS/MS	1.5 µg/mL 0.3 µg/mL	Active
Macitentan	Plasma	LC-MS/MS	1 ng/mL	Active
Marcaine	Plasma Tissue	LC-MS/MS HPLC/UV	1 ng/mL	Active
Mebeverin Acid/ o-desmethyl mebeverine acid	Plasma	LC-MS/MS	1 ng/mL 5 ng/mL	Active
Meglumine / Acridone acetic acid	Plasma	LC-MS/MS	0.5 µg/mL 0.05 µg/mL	Active
Melatonin	Plasma	LC-MS/MS	10 pg/ml	Active
Meloxicam	Plasma	LC-MS/MS	10 ng/mL	Active
Melphalan	Plasma Tissue	LC-MS/MS	0.3 ng/mL	Active
Memantine	Plasma	LC-MS/MS	0.3 ng/mL	Active
Metanephrine	Urine	HPLC/ED	10 ng/mL	Active
Metformin / Sitagliptin	Plasma	LC-MS/MS	10 ng/mL 1 ng/mL	Active
Metoprolol	Plasma	LC-MS/MS	0.1 ng/mL	Active
Mexidol (Emoxypine)	Plasma	LC-MS/MS	0.5 ng/mL	Active
Miglustat	Plasma	LC-MS/MS	10 ng/mL	Active
Mildronate	Plasma	LC-MS/MS	50 ng/mL	Active
Mirtazapine / Tizanidine	Plasma	LC-MS/MS	1 ng/mL 0.2 ng/mL	Active
4-Methylaminoantipyrine (Metamizole metabolite)	Plasma	LC-MS/MS	100 ng/mL	Active

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Mitomycin C	Plasma Tissue	LC-MS/MS	0.6 ng/mL	Active
Mitotane	Plasma	HPLC-UV	0.75 mk _g /mL	Active
Mitoxantrone	Plasma Tissue	LC-MS/MS	5 ng/mL	Inactive
Monomethyl fumarate	Plasma	LC-MS/MS	10 ng/mL	Active
Montelukast/ Cetirizine	Plasma	LC-MS/MS	10 ng/mL 1 ng/mL	Active
Moxifloxacin	Plasma	LC-MS/MS	2 ng/mL	Active
Moxonidine	Plasma	LC-MS/MS	50 pg/mL	Active
Naftidrofuryl	Plasma	LC-MS/MS	10 ng/mL	Active
Naloxone	Plasma	LC-MS/MS	80 pg/mL	Active
Naltrexone	Plasma	LC-MS/MS	150 pg/mL	Active
Nefopam	Plasma	LC-MS/MS	0.5 ng/mL	Active
Nevirapine	Plasma	LC-MS/MS	80 ng/mL	Active
Nifedipine/ Lidocaine	Plasma	LC-MS/MS	0.5 ng/mL 1 ng/mL	Active
Nilotinib	Plasma	LC-MS/MS	2 ng/mL	Active
Nimesulide	Plasma	LC-MS/MS	20 ng/mL	Active
Nitisinone	Plasma	LC-MS/MS	5 ng/mL	Active
2,2',2''-Nitrilotriethanol	Plasma	LC-MS/MS	20 ng/ml	Active
Norepinephrine	Plasma Urine	HPLC/ED	0.2 ng/mL	Active
Normetanephrine	Urine	HPLC/ED	5 ng/mL	Active
Obeticholic acid	Plasma	LC-MS/MS	1 ng/ml	Active
Oxybutynin	Plasma Tissue	LC-MS/MS	0.5 ng/mL	Active
Oseltamivir / Oseltamivir carboxylate	Plasma	LC-MS/MS	0.5 ng/mL 1 ng/ml	Active
Oseltamivir carboxylate	Plasma	LC-MS/MS	2 ng/mL	Active
Paliperidone	Plasma	LC-MS/MS	0.3 ng/mL	Active
PAS (4-Aminosalicylic acid)	Plasma	LC-MS/MS	50 ng/mL	Active
Pantoprazole	Plasma	LC-MS/MS	5 ng/mL	Active

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Paroxetine	Plasma	LC-MS/MS	0.1 ng/mL	Active
Pazopanib	Plasma	LC-MS/MS	300 ng/mL	Active
Penciclovir	Plasma	LC-MS/MS	50 ng/mL	Active
Perindopril / Perindoprilat	Plasma	LC-MS/MS	0.4 ng/mL 0.4 ng/mL	Active
Perindoprilat / Indapamide	Plasma	LC-MS/MS	0.4 ng/mL 0.3 ng/mL	Active
Phenibut	Plasma	LC-MS/MS	10 ng/mL	Active
Phenylephrine	Plasma	LC-MS/MS	30 pg/ml	Active
Pirfenidone	Plasma	LC-MS/MS	5 ng/mL	Active
Pomalidomide	Plasma	LC-MS/MS	1 ng/ml	Active
Posaconazole	Plasma	LC-MS/MS	5 ng/mL	Active
Praziquantel	Plasma	LC-MS/MS	1.5 ng/ml	Active
Pregabalin	Plasma	LC-MS/MS	50 ng/mL	Active
Rabeprazole	Plasma	LC-MS/MS	2 ng/mL	Active
Rankvilon (GB-115)	Plasma	LC-MS/MS	0.2 ng/mL	Active
Rankvilon (GB-115)	Urine	LC-MS/MS	0.5 ng/mL	Active
Rankvilon (GB-115)	Tissues (liver, kidney, omentum, brain, muscle) Fecal	LC-MS/MS	2 ng/g	Active
Ranolazine	Plasma	LC-MS/MS	5 ng/mL	Active
Ramipril / Ramiprilat	Plasma	LC-MS/MS	0.2 ng/mL 0.5 ng/mL	Active
Rimantadine	Plasma	LC-MS/MS	0.5 ng/mL	Active
Ritonavir	Plasma	LC-MS/MS	5 ng/mL	Active
Ritonavir / Lopinavir	Plasma	LC-MS/MS	1 ng/mL 5 ng/mL	Active
Rivaroxaban	Plasma	LC-MS/MS	0.5 ng/mL	Active
Rivastigmine	Plasma	LC-MS/MS	0.4 ng/mL	Active

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Rizatriptan	Plasma	LC-MS/MS	0.2 ng/mL	Active
Rhein (Diacerein)	Plasma	HPLC/UV	100 ng/mL	Active
Ropinipole	Plasma	LC-MS/MS	10 pg/mL	Active
Rosuvastatin	Plasma	LC-MS/MS	0.2 ng/mL	Active
Salbutamol	Plasma	LC-MS/MS	0.2 ng/mL	Active
Saxagliptin	Plasma	LC-MS/MS	0.5 ng/mL	Active
Serotonin	Plasma	HPLC/UV	10 ng/mL	Active
Sildenafil	Plasma	LC- MS/MS	5 ng/mL	Active
Sildenafil	Plasma	LC-MS/MS	1 ng/mL	Active
Sitagliptin	Plasma	LC-MS/MS	1 ng/mL	Active
Solifenacin	Plasma	LC-MS/MS	0.5 ng/mL	Active
Spirolactone / Canrenone	Plasma	LC-MS/MS	2 ng/mL 2 ng/mL	Active
Stavudine	Plasma	LC-MS/MS	30 ng/mL	Active
Succinic acid	Plasma	LC-MS/MS	0.1 µg/mL	Active
Sumatriptan	Plasma	LC-MS/MS	0.5 ng/mL	Active
Sunitinib	Plasma	LC-MS/MS	0.3 ng/mL	Active
Tadalafil	Plasma	LC-MS/MS	5 ng/ml	Active
Tacrolimus	Blood	LC-MS/MS	0.5 ng/mL 0.1 ng/mL	Active Active
Tamsulosin	Plasma	LC-MS/MS	0.1 ng/mL	Active
Telmisartan	Plasma	LC-MS/MS	3 ng/mL	Active
Telmisartan/ Hydrochlorothiazide	Plasma	LC-MS/MS	3 ng/mL 1 ng/mL	Active
Tenofovir	Plasma	LC-MS/MS	4 ng/mL	Active
Terbinafine	Plasma	LC-MS/MS	1 ng/mL	Active
Terizidone	Plasma	LC-MS/MS	0.3 µg/mL	Active
Thyroxine (T4)	Serum	LC-MS/MS	30 ng/mL	Active
Ticagrelor / AR-C124910XX	Plasma	LC-MS/MS	5 ng/mL/ 2.5 ng/mL	Active
Tilorone	Plasma	LC-MS/MS	0.5 ng/mL	Active

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Tolperisone	Plasma	LC-MS/MS	0.5 ng/mL	Active
Torasemide	Plasma	LC-MS/MS	2 ng/mL	Active
Troventol	Plasma	LC-MS/MS	35 pg/mL	Active
Troxerutin	Plasma	LC-MS/MS	20 pg/ml	Active
Tryptophan	Plasma	HPLC/UV	10 ng/mL	Active
Quetiapine	Plasma	LC-MS/MS	1 ng/mL	Active
Umifenovir	Plasma	LC-MS/MS	1 ng/mL	Active
Ursodeoxycholic acid	Plasma	LC-MS/MS	50 ng/mL	Active
Uridine	Plasma	LC-MS/MS	150 ng/mL	Active
Valsartan	Plasma	LC-MS/MS	10 ng/mL	Active
Valsartan / Hydrochlorothiazide	Plasma	LC-MS/MS	20 ng/mL 1 ng/mL	Active
Vanillyl mandelic acid	Urine	HPLC/UV	10 ng/mL	Active
Vildagliptin / Metformin	Plasma	LC-MS/MS	2 ng/mL 5 ng/mL	Active
Vinblastine	Plasma Tissue	LC-MS/MS HPLC/UV	1 ng/mL	Active
Voriconazole	Plasma	LC-MS/MS	20 ng/mL	Active
Warfarin	Plasma	LC-MS/MS	5 ng/mL	Active
Zidovudine	Plasma	LC-MS/MS	40 ng/mL	Active
Zidovudine / Lamivudine	Plasma	LC-MS/MS	30 ng/mL 25 ng/mL	Active
Zonisamide	Blood	LC-MS/MS	10 ng/mL	Active

* Inactive methods and older methods may require a revalidation fee to bring them up-to-date with the current EMA/FDA Guideline

CSU “Analytical Spectrometry” develops and validates many bioanalytical methods for clients. Please inquire for any methods not listed, and we will prepare a customized quotation and project schedule that meets your needs.