

Bioanalytical Methods

India's Premier CRO



LIST OF VALIDATED METHODS

S.No.	Compound (Analyte & Metabolite)	Method	Biological Matrix	Sensitivity (LOQ)
1	Abacavir	LC-MS/MS	Plasma	40 ng/mL
2	Abacavir + Lamivudine	LC-MS/MS	Plasma	40 ng/mL + 20 ng/mL
3	Aceclofenac	HPLC/VWD	Plasma	50 ng/mL
4	Adefovir	LC-MS/MS	Plasma	1 ng/mL
5	Alendronate Sodium	HPLC/FLD	Urine	5 ng/mL
6	Alendronate Sodium	LC-MS/MS	Urine	5 ng/mL
7	Alfuzosin	LC-MS/MS	Plasma	0.156 ng/mL
8	Alprazolam	LC-MS/MS	Plasma	0.2 ng/mL
9	Amiodarone + Desethyl Amiodarone	LC-MS/MS	Plasma	3.0 ng/mL + 1.0 ng/mL
10	Amlodipine	LC-MS/MS	Plasma	50 pg/mL
11	Amlodipine	LC-MS/MS	Plasma	100 pg/mL
12	Amlodipine + Atenolol	LC-MS/MS	Plasma	50.0 pg/mL + 5.0 ng/mL
13	Amoxicillin	LC-MS/MS	Plasma	50.6 ng/mL
14	Amoxicillin + Clavulanate	HPLC/VWD	Plasma	452.06 ng/mL + 230.14 ng/mL
15	Anastrozole	LC-MS/MS	Plasma	0.1 ng/mL
16	Aripiprazole	LC-MS/MS	Plasma	0.2 ng/mL
17	Atazanavir	LC-MS/MS	Plasma	5.0 ng/mL
18	Atenolol	LC-MS/MS	Plasma	5.0 ng/mL
19	Atomoxetine	LC-MS/MS	Plasma	0.8 ng/mL
20	Atorvastatin	LC-MS/MS	Plasma	0.1 ng/mL
21	Atorvastatin + Ortho + Para Hydroxy Atorvastatin	LC-MS/MS	Plasma	0.1 ng/mL + 0.05 ng/mL + 0.05 ng/mL
22	Balsazide + 5-ASA (5-Amino salicylic acid)	LC-MS/MS	Plasma	5.0 ng/mL + 4.0 ng/mL
23	Benazepril + Benazeprilate	LC-MS/MS	Plasma	5.09 ng/mL + 5.70 ng/mL
23	Bisoprolol	LC-MS/MS	Plasma	50 pg/mL
24	Bisoprolol	LC-MS/MS	Plasma	0.2 ng/mL

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26	Bupropion + Hydroxy-Bupropion	LC-MS/MS	Plasma	0.5 ng/mL + 2.0 ng/mL
27	Candesartan	LC-MS/MS	Plasma	1ng/mL
28	Captopril	LC-MS/MS	Plasma	10.0 ng/mL
29	Carvedilol + Hydroxy-carvedilol	LC-MS/MS	Plasma	0.31 ng/mL + 0.11 ng/mL
30	Cefdinir	HPLC/VWD	Plasma	40.17 ng/mL
31	Cefixime	HPLC/VWD	Plasma	56.14 ng/mL
32	Cefprozil	LC-MS/MS	Plasma	100 ng/mL
33	Cefuroxime axetil	LC-MS/MS	Plasma	20 ng/mL
34	Cetirizine	LC-MS/MS	Plasma	2.0 ng/mL
35	Cilastazole	LC-MS/MS	Plasma	10 ng/mL
36	Ciprofibrate	HPLC-VWD	Plasma	50 ng/ml
37	Citalopram	LC-MS/MS	Plasma	0.1 ng/mL
38	Clarithromycin	LC-MS/MS	Plasma	64.87 ng/mL
39	Clarithromycin + Hydroxy clarithromycin	LC-MS/MS	Plasma	50.0 ng/mL + 5.0 ng/mL
40	Clindamycin	HPLC-VWD	Plasma	50 ng/mL
41	Clopidogrel +Carboxylic Acid Clopidogrel	LC-MS/MS	Plasma	0.2ng/mL+32.0ng/mL
42	Codeine	LC-MS/MS	Plasma	1.0 ng/mL
43	Cyclobenazepine	LC-MS/MS	Plasma	0.05 ng/mL
44	Desogestrel (3-Keto desogestrol)	LC-MS/MS	Plasma	40pg/mL
45	Didanosine	LC-MS/MS	Plasma	2.0 ng/mL
46	Dipyridamole	LC-MS/MS	Plasma	5.0 ng/mL
47	Divalproex Sodium	HPLC/VWD	Plasma	0.5 µg/mL
48	Donezepil	LC-MS/MS	Plasma	0.1 ng/mL
49	Doxazosine	LC-MS/MS	Plasma	0.1 ng/mL
50	Duloxetine	LC-MS/MS	Plasma	0.1 ng/mL

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51	Dutasteride	LC-MS/MS	Plasma	50pg/mL
52	Efaverinz	LC-MS/MS	Plasma	20 ng/mL
53	Emtricitabine	LC-MS/MS	Plasma	5 ng/ml
54	Emtricitabine + Efaverinz	LC-MS/MS	Plasma	5 ng/mL + 20 ng/mL
55	Emtricitabine + Tenofovir	LC-MS/MS	Plasma	5 ng/mL + 4 ng/mL
56	Entacapone	HPLC-VWD	Plasma	20 ng/mL
57	Erdosteine	LC-MS/MS	Plasma	5 ng/mL
58	Escitalopram Oxalate	LC-MS/MS	Plasma	0.56 ng/mL
59	Esomeprazole	LC-MS/MS	Plasma	2 ng/mL
60	Estradiol-17 beta	LC-MS/MS	Plasma	2.5 ng/mL
61	Estrone sulfate + Equilin sulfate	LC-MS/MS	Plasma	50 pg/mL + 50 pg/mL
62	Estrone (Free) + Equilin (Free)	LC-MS/MS	Plasma	5 pg/mL + 5 pg/mL
63	Ethinyl estradiol	LC-MS/MS	Plasma	3.5 pg/mL
64	Famciclovir	HPLC-VWD	Plasma	50 ng/mL
65	Felbamate	HPLC-VWD	Plasma	1 ug/ml
66	Felodipine	LC-MS/MS	Plasma	0.1 ng/ml
67	Fenofibric Acid	LC-MS/MS	Plasma	0.1 ng/ml
68	Fexofenadine	LC-MS/MS	Plasma	10 ng/ml
69	Flecainide	LC-MS/MS	Plasma	0.8 ng/ml
70	Flucloxacillin	HPLC-VWD	Plasma	100 ng/ml
71	Fluconazole	LC-MS/MS	Plasma	10 ng/ml
72	Fluoxetine	LC-MS/MS	Plasma	0.1 ng/ml
73	Fluoxetine+NorFluoxetine	LC-MS/MS	Plasma	0.2 ng/ml+0.2 ng/ml
74	Fluvoxamine	LC-MS/MS	Plasma	2.0 ng/ml
75	Fosinopril + Fosinoprilate + Hydrochlorothiazide	LC-MS/MS	Plasma	0.31 ng/mL + 5.34 ng/mL + 1.01 ng/mL

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76	Fosinoprilate	LC-MS/MS	Plasma	0.5 ng/mL
77	Gabapentine	LC-MS/MS	Plasma	10 ng/mL
78	Galantamine	LC-MS/MS	Plasma	0.2 ng/mL
79	Gemfibrozil	HPLC/FLD	Plasma	0.5 µg/mL
80	Gestodine	LC-MS/MS	Plasma	50 pg/mL
81	Glimipride	LC-MS/MS	Plasma	1 ng/mL
82	Glipizide	LC-MS/MS	Plasma	2.54 ng/mL
83	Griseofulvin	LC-MS/MS	Plasma	10 ng/mL
84	Guifenesin + Dextromethorphan	LC-MS/MS	Plasma	20 ng/mL + 0.1 ng/mL
85	Guifenesin + Pseudoephedrine	LC-MS/MS	Plasma	20 ng/mL + 5 ng/mL
86	Hydrochlorothiazide	LC-MS/MS	Plasma	2 ng/mL
87	Ibandronate	LC-MS/MS	Plasma	3 ng/mL
88	Ibuprofen	HPLC/VWD	Plasma	300 ng/mL
89	Indapamide	LC-MS/MS	Whole Blood	0.5 ng/mL
90	Indomethacin	LC-MS/MS	Plasma	20 ng/mL
91	Irbesartan	HPLC/VWD	Plasma	40 ng/mL
92	Irbesartan	LC-MS/MS	Plasma	5 ng/mL
93	Irbesartan + Hydrochlorothiazide	LC-MS/MS	Plasma	10 ng/mL + 2 ng/mL
94	Isosorbide mononitrate	LC-MS/MS	Plasma	4 ng/mL
95	Isosorbide mononitrate	LC-MS/MS	Plasma	10 ng/mL
96	Isradipine	LC-MS/MS	Plasma	0.1 ng/mL
97	Itraconazole	LC-MS/MS	Plasma	3.53 ng/mL
98	Itraconazole + Hydroxy Itraconazole	LC-MS/MS	Plasma	0.5 ng/mL + 2 ng/mL
99	Lamivudine + Nevirapine	LC-MS/MS	Plasma	10 ng/mL + 10 ng/mL
100	Lamotrigine	LC-MS/MS	Plasma	5.03 ng/mL

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S.No	Compound (Analyte & Metabolite)	Method	Biological Matrix	Sensitivity (LOQ)
101	Lansoprazole	LC-MS/MS	Plasma	1 ng/mL
102	Lansoprazole	HPLC/VWD	Plasma	15.62 ng/mL
103	Levetiracetam	LC-MS/MS	Plasma	150 ng/mL
104	Levodopa + Carbidopa	LC-MS/MS	Plasma	5 ng/mL + 2 ng/mL
105	Levofloxacin	LC-MS/MS	Plasma	50 ng/mL
106	Levonorgestrol	LC-MS/MS	Plasma	0.1 ng/mL
107	Levonorgestrol	LC-MS/MS	Plasma	0.3 ng/mL
108	Lisinopril	LC-MS/MS	Plasma	0.5 ng/mL
109	Lithium	ICP-OES	Plasma	50 ppb
110	Lopinavir + Ritonavir	LC-MS/MS	Plasma	20 ng/mL +3 ng/mL
111	Losartan + Losartan Carboxylic acid + Hydrochlorothiazide	LC-MS/MS	Plasma	5.38 ng/mL + 5.35 ng/mL + 2.17 ng/mL
112	Losartan Potassium + Losartan Carboxylic acid	LC-MS/MS	Plasma	5.18 ng/mL + 5.46 ng/mL
113	Lovastatin + Hydroxy Lovastatin	LC-MS/MS	Plasma	0.05 ng/mL + 0.07 ng/mL
114	Meloxicam	LC-MS/MS	Plasma	10 ng/mL
115	Memantine	LC-MS/MS	Plasma	0.2 ng/mL
116	Mesalamine (5-ASA)	LC-MS/MS	Plasma	4.0 ng/mL
117	Metaxalone	LC-MS/MS	Plasma	10 ng/mL
118	Metformin	LC-MS/MS	Plasma	10 ng/mL
119	Methyl phenydate	LC-MS/MS	Plasma	0.1 ng/mL
120	Metoprolol Succinate	LC-MS/MS	Plasma	2 ng/mL
121	Minocycline	LC-MS/MS	Plasma	10 ng/mL
122	Mirtazepine	LC-MS/MS	Plasma	0.2 ng/mL
123	Modafinil	LC-MS/MS	Plasma	20 ng/mL
124	Monteleukast	LC-MS/MS	Plasma	0.2 ng/mL
125	Mosapride	LC-MS/MS	Plasma	1 ng/mL

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S.No	Compound (Analyte & Metabolite)	Method	Biological Matrix	Sensitivity (LOQ)
126	Moxifloxacin	HPLC-VWD	Plasma	50 mg/mL
127	Mycophenolic Acid	LC-MS/MS	Plasma	30 ng/mL
128	Nadolol	LC-MS/MS	Plasma	0.5 ng/mL
129	Naproxen	HPLC-VWD	Plasma	500 ng/mL
130	Nevirapine	HPLC/VWD	Plasma	50 ng/mL
131	Nifedipine	LC-MS/MS	Plasma	0.5 ng/mL
132	Norethindrone	LC-MS/MS	Plasma	0.1 ng/mL
133	Norgestimate	LC-MS/MS	Plasma	50 pg/mL
134	Olanzapine	LC-MS/MS	Plasma	0.2 ng/mL
135	Omeprazole	LC-MS/MS	Plasma	10 ng/mL
136	Ondansetron	LC-MS/MS	Plasma	2.51 ng/mL
137	Oxcarbazepine + 10-Hydroxy Carbazepine	HPLC/VWD	Plasma	51.43 ng/mL + 301.69 ng/mL
138	Oxybutynin + desethylOxybutynin	LC-MS/MS	Plasma	50 pg/mL + 100 pg/mL
139	Pantoprazole	LC-MS/MS	Plasma	7.35 ng/mL
140	Pantoprazole	HPLC/VWD	Plasma	25.67 ng/mL
141	Paracetamol	LC-MS/MS	Plasma	200 ng/mL
142	Paroxetine	LC-MS/MS	Plasma	0.1 ng/mL
143	Perindopril + Indapamide	LC-MS/MS	Plasma	0.5 ng/mL + 0.2 ng/mL
144	Perindopril + Perindoprilate	LC-MS/MS	Plasma	0.23 ng/mL + 0.02 ng/mL
145	Phenytoin	LC-MS/MS	Plasma	25 ng/mL
146	Pioglitazone+M-III+M-IV metabolites	LC-MS/MS	Plasma	20.2 ng/mL + 5.0ng/mL + 10.1ng/mL
147	Pramipexole	LC-MS/MS	Plasma	20 pg/mL
148	Prasugrel (R138727)	LC-MS/MS	Plasma	0.5 ng/mL
149	Progesterone	LC-MS/MS	Plasma	1 ng/mL
150	Propafenone + Hydroxy Propafenone	LC-MS/MS	Plasma	0.2ng/mL+0.2ng/mL

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S.No	Compound (Analyte & Metabolite)	Method	Biological Matrix	Sensitivity (LOQ)
151	Propranolol	LC-MS/MS	Plasma	0.5 ng/mL
152	Quetiapine Fumerate	LC-MS/MS	Plasma	2.75 ng/mL
153	Quinapril + Quinaprilate + Hydrochlorothiazide	LC-MS/MS	Plasma	3.5 ng/mL + 10.75 ng/mL + 4.08 ng/mL
154	Quinine	LC-MS/MS	Plasma	10 ng/mL
155	Rabeprazole	LC-MS/MS	Plasma	5 ng/mL
156	Ramipril + Ramiprilate	LC-MS/MS	Plasma	0.1ng/mL + 0.1 ng/mL
157	Ranolazine	LC-MS/MS	Plasma	2 ng/mL
158	Repaglinide	LC-MS/MS	Plasma	0.5 ng/mL
159	Ribavarin	LC-MS/MS	Plasma	10 ng/mL
160	Rifaximin	LC-MS/MS	Plasma	50 pg/mL
161	Risperidone	LC-MS/MS	Plasma	0.1 ng/mL
162	Rivastigmine Tartarate	LC-MS/MS	Plasma	0.2 ng/mL
163	Rizatriptan	LC-MS/MS	Plasma	0.2 ng/mL
164	Ropinirole	LC-MS/MS	Plasma	10 pg/mL
165	Ropinirole	LC-MS/MS	Plasma	50 pg/mL
166	Rosuvastatin	LC-MS/MS	Plasma	0.53 ng/mL
167	Salicylic acid	HPLC/VWD	Plasma	2 µg/ml
168	Sertraline	LC-MS/MS	Plasma	0.2 ng/mL
169	Sildenafil	LC-MS/MS	Plasma	5 ng/mL
170	Sildenafil + Piperazine sildenafil	LC-MS/MS	Plasma	5 ng/mL + 2 ng/mL
171	Simvastatin + Hydroxy simvastatin	LC-MS/MS	Plasma	0.2 ng/mL + 0.1 ng/mL
172	Stavudine / Lamvudine / Nevirapine	HPLC/VWD	Plasma	0.05 µg/mL + 0.051 µg/mL+0.05µg/mL
173	Stavudine / Lamvudine / Nevirapine	LC-MS/MS	Plasma	5 ng/mL + 5 ng/mL+ 10 ng/mL
174	Sulfamethoxazole + Trimethoprim	HPLC/VWD	Plasma	100 ng/mL + 20 ng/mL
175	Sumatriptan	LC-MS/MS	Plasma	0.2 ng/mL

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S.No	Compound (Analyte & Metabolite)	Method	Biological Matrix	Sensitivity (LOQ)
176	Tacrolimus	LC-MS/MS	Whole Blood	0.2 ng/mL
177	Tadalafil	LC-MS/MS	Plasma	3.02 ng/mL
178	Tamsulosin	LC-MS/MS	Plasma	0.1 ng/mL
179	Telmisartan	LC-MS/MS	Plasma	0.5 ng/mL
180	Tenofovir	LC-MS/MS	Plasma	10 ng/mL
181	Terazosine	LC-MS/MS	Plasma	0.1 ng/mL
182	Terbinafine	LC-MS/MS	Plasma	5 ng/mL
183	Testosterone	LC-MS/MS	Serum	1 ng/mL
184	Theophylline	HPLC/VWD	Plasma	300 ng/mL
185	Tolterodine Tartrate + Hydroxy Tolterodine	LC-MS/MS	Plasma	0.1 ng/mL + 0.09 ng/mL
186	Topiramate	LC-MS/MS	Plasma	10 ng/mL
187	Torse mide	HPLC/VWD	Plasma	0.148 µg/mL
188	Tramadol	LC-MS/MS	Plasma	0.5 ng/ml
189	Trandalopril + Trandaloprilate	LC-MS/MS	Plasma	0.1 ng/mL + 50 pg/mL
190	Trazadone	LC-MS/MS	Plasma	10 ng/ml
191	Ursodiol	LC-MS/MS	Plasma	10 ng/ml
192	Valcyclovir	HPLC/VWD	Plasma	200 ng/ml
193	Valacyclovir + Acyclovir	LC-MS/MS	Plasma	1 ng/ml + 200 ng/ml
194	Valganciclovir	LC-MS/MS	Plasma	5 ng/ml
195	Valsartan + Hydrochlorothiazide	LC-MS/MS	Plasma	24 ng/ml + 2 ng/ml
196	Venlafaxine + O-Desmethylvenlafaxine	LC-MS/MS	Plasma	2.51 ng/ml + 5 ng/ml
197	Zaleplon	LC-MS/MS	Plasma	0.3 ng/ml
198	Zidovudine	LC-MS/MS	Plasma	20 ng/ml
199	Zidovudine + Lamvudine + Nevirapine	LC-MS/MS	Plasma	5 ng/mL + 5 ng/mL+ 10 ng/mL
200	Ziprasidone	LC-MS/MS	Plasma	1 ng/mL
201	Zolpidem	LC-MS/MS	Plasma	1 ng/mL

LIST OF VALIDATED METHODS – TRACE METAL IONS

S.No	Trace Metal Ions	Method
202	Aluminium	ICP-OES
203	Barium	ICP-OES
204	Boron	ICP-OES
205	Calcium	ICP-OES
206	Lead	ICP-OES
207	Magnesium	ICP-OES
208	Silica	ICP-OES

Methods under development

S. No.	Compound (Analyte & Metabolite)	Method	Biological Matrix	Sensitivity (LOQ) TBD
1	Acitretin (all-trans) and 13-cis acitretin	LC-MS/MS	Plasma	2 ng/mL + 0.1 ng/mL
2	Atovaquone	LC-MS/MS	Plasma	20ng/mL
3	Azithromycin	LC-MS/MS	Plasma	20ng/mL
4	Cholecalciferol (Vitamin D3)	LC-MS/MS	Plasma	0.5 ng/mL
5	Ethinylestradiol + Cyproterone acetate	LC-MS/MS	Plasma	6 pg/mL+ 500 pg/mL
6	Ethinylestradiol + Drospirenone	LC-MS/MS	Plasma	5 pg/mL + 50 pg/mL
7	Letrozole	LC-MS/MS	Plasma	0.5 ng/mL
8	Levetiracetam	LC-MS/MS	Plasma	30ng/mL
9	Levomepramazine+N-desMethyl Levomepramazine	LC-MS/MS	Plasma	50pg/mL+50pg/mL
10	Loratidine + Desloratidine	LC-MS/MS	Plasma	0.1 ng/mL + 0.05 ng/mL
11	Niacin + NUA	LC-MS/MS	Plasma	10 ng/mL + 1 ng/mL
12	Raloxifene	LC-MS/MS	Plasma	10 pg/mL
13	Verapamil + Norverapamil	LC-MS/MS	Plasma	1 ng/mL + 1 ng/mL

FLD : Fluorescence Detector
 HPLC : High Performance Liquid Chromatography
 LC : Liquid Chromatography
 MS : Mass Spectrometry
 VWD : Variable Wavelength Detector
 TBD : To be determined
 LOQ : Limit of Quantification

For the most up-to-date list of validated methods, please contact our business development representative.



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