

# METHODS LIBRARY

| Analyte(s)                        | Therapeutic Class                  | Method of Analysis | Calibration Curve Range                     | Biological Matrix |
|-----------------------------------|------------------------------------|--------------------|---------------------------------------------|-------------------|
| 7-alpha thiomethyl spironolactone | Diuretic                           | LC/MS/MS           | 10 - 800 ng/mL                              | Plasma            |
| Abacavir & Lamivudine             | Antiretroviral                     | LC/MS/MS           | 80-12000 ng/mL & 50-7000 ng/mL              | Plasma            |
| Abacavir, Lamivudine & Zidovudine | Antiretroviral                     | LC/MS/MS           | 80-8000 ng/mL, 50-5000 ng/mL & 50-5000ng/mL | Plasma            |
| Abiraterone                       | Prostate cancer treatment          | LC/MS/MS           | 0.1-2000 ng/mL                              | Plasma            |
| Acamprosate                       | Anti alcohol dependence            | LC/MS/MS           | 2-400 ng/mL                                 | Plasma            |
| Aceclofenac                       | Anti inflammatory                  | LC/MS/MS           | 200-20000 ng/mL                             | Plasma            |
| Acetaminophen & Diphenhydramine   | Antipyretic & Antihistamine        | LC/MS/MS           | 100-20000 ng/mL & 0.5-200 ng/mL             | Plasma            |
| Acetazolamide                     | Diuretic                           | LC/MS/MS           | 0.8-60 µg/mL                                | Plasma            |
| Acitretin & 13 Cis Acitretin      | Psoriasis treatment                | LC/MS/MS           | 5-1000 ng/mL & 4-150 ng/mL                  | Plasma            |
| Acyclovir                         | Antiviral                          | LC/MS/MS           | 10-2000 ng/mL                               | Plasma            |
| Acyclovir & Valacyclovir          | Antiviral                          | LC/MS/MS           | 10-1000 ng/mL & 100-12000 ng/mL             | Plasma            |
| Albuterol                         | Bronchodilator                     | LC/MS/MS           | 100-30000 pg/mL & 20-2000 pg/mL             | Plasma            |
| Alendronate                       | Osteoporosis treatment             | LC/MS/MS           | 1-100 ng/mL                                 | Plasma            |
| Allopurinol                       | Gout treatment                     | LC/MS/MS           | 50-4000 ng/mL & 50-5000 ng/mL               | Plasma            |
| Alosetron                         | Irritable Bowel Syndrome treatment | LC/MS/MS           | 25-20000 pg/mL                              | Plasma            |

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|-----------------------------------------------------|--------------------------------|--------------------|---------------------------------------------|-------------------|
| Alprazolam                                          | Antianxiety                    | LC/MS/MS           | 0.1-50 ng/mL                                | Plasma            |
| Ambrisentan                                         | Antihypertensive (pulmonary)   | LC/MS/MS           | 20-5000 ng/mL                               | Plasma            |
| Amiloride                                           | Antihypertensive               | LC/MS/MS           | 0.1-20 ng/mL                                | Plasma            |
| Amiodarone                                          | Antiarrhythmic                 | LC/MS/MS           | 3- 1500 ng/mL                               | Plasma            |
| Amlodipine                                          | Antihypertensive               | LC/MS/MS           | 100-15000 pg/mL                             | Plasma            |
| Amphetamine & Methamphetamine                       | CNS stimulant                  | LC/MS/MS           | 50-5000 pg/mL & 100-12000 pg/mL             | Plasma            |
| Anastrozole                                         | Antineoplastic                 | LC/MS/MS           | 0.2-30 ng/mL                                | Plasma            |
| Apixaban                                            | Anticoagulant                  | LC/MS/MS           | 1-500 ng/mL                                 | Plasma            |
| Apremilast                                          | Psoriasis treatment            | LC/MS/MS           | 5-1000 ng/mL                                | Plasma            |
| Aprepitant                                          | Antiemetic                     | LC/MS/MS           | 10-5000 ng/mL                               | Plasma            |
| Armodafinil                                         | CNS stimulant                  | LC/MS/MS           | 200-15000 ng/mL                             | Plasma            |
| Artemether (Lumefantrine)                           | Antimalarial                   | LC/MS/MS           | 2 – 250 ng/mL                               | Plasma            |
| Asenapine & N-desmethyl asenapine                   | Antipsychotic                  | LC/MS/MS           | 50-20000 pg/mL & 52-4000 pg/mL              | Plasma            |
| Aspirin (Salicylic acid & Dipyrindamole)            | Analgesic                      | LC/MS/MS           | 10-2000 ng/mL                               | Plasma            |
| Atazanavir                                          | Antiretroviral                 | LC/MS/MS           | 20-7000 ng/mL                               | Plasma            |
| Atomoxetine                                         | ADHD treatment                 | LC/MS/MS           | 5-1500 ng/mL                                | Plasma            |
| Atorvastatin, o-OH Atorvastatin & p-OH Atorvastatin | Dyslipidemia treatment         | LC/MS/MS           | 0.5-250 ng/mL, 0.2-250 ng/mL & 0.2-20 ng/mL | Plasma            |
| Atovaquone                                          | Antiparasitic                  | LC/MS/MS           | 50-8000 ng/mL                               | Plasma            |
| Axitinib                                            | Antineoplastic                 | LC/MS/MS           | 0.2-60 ng/mL & 0.2-150 ng/mL                | Plasma            |
| Azithromycin                                        | Antibiotic                     | LC/MS/MS           | 2-1000 ng/mL                                | Plasma            |
| Bexarotene                                          | Antineoplastic                 | LC/MS/MS           | 1-200 ng/mL & 1-600 ng/mL                   | Plasma            |
| Bezafibrate                                         | Antihyperlipidemia             | LC/MS/MS           | 0.1-20 µg/mL                                | Plasma            |
| Bicalutamide                                        | Anticancer                     | LC/MS/MS           | 20-3000 ng/mL                               | Plasma            |
| Bismuth                                             | Antacid                        | ICPMS              | 0.3-120 ng/mL                               | Plasma            |
| Bosentan                                            | Endothelin receptor antagonist | LC/MS/MS           | 10-4000 ng/mL                               | Plasma            |
| Budesonide                                          | Asthma treatment               | LC/MS/MS           | 10-4000 pg/mL                               | Plasma            |
| Bumetanide                                          | Diuretic                       | LC/MS/MS           | 0.2-200 ng/mL                               | Plasma            |
| Calcium                                             | Electrolyte                    | ICPMS              | 100-10000 µg/gm                             | Bone/skin         |

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| Analyte(s)                                     | Therapeutic Class               | Method of Analysis | Calibration Curve Range         | Biological Matrix |
|------------------------------------------------|---------------------------------|--------------------|---------------------------------|-------------------|
| Canagliflozin                                  | Antidiabetic                    | LC/MS/MS           | 25-6000 ng/mL                   | Plasma            |
| Candesartan                                    | Antihypertensive                | LC/MS/MS           | 2-500 ng/mL                     | Plasma            |
| Carisoprodol                                   | Skeletal muscle relaxant        | LC/MS/MS           | 20-5000 ng/mL                   | Plasma            |
| Celecoxib                                      | NSAID                           | LC/MS/MS           | 20-4000 ng/mL                   | Plasma            |
| Cetirizine                                     | Antihistaminic                  | LC/MS/MS           | 4-600 ng/mL                     | Plasma            |
| Chlorpheniramine & Pseudoephedrine (Ibuprofen) | Antihistaminic & Decongestant   | LC/MS/MS           | 0.3-40 ng/mL & 3-400 ng/mL      | Plasma            |
| Chlorpromazine & 7 Hydroxy chlorpromazine      | Antipsychotic                   | LC/MS/MS           | 0.1-200 ng/mL                   | Plasma            |
| Chlorthalidone                                 | Diuretic                        | LC/MS/MS           | 10-6000 ng/mL                   | Plasma            |
| Cinacalcet                                     | Calcimimetic                    | LC/MS/MS           | 0.220-110 ng/mL                 | Plasma            |
| Cinnarizine                                    | Antihistaminic                  | LC/MS/MS           | 0.5-150 ng/mL                   | Plasma            |
| Ciprofloxacin                                  | Antibiotic                      | LC/MS/MS           | 50-8000 ng/mL                   | Plasma            |
| Clarithromycin                                 | Antibiotic                      | LC/MS/MS           | 10-5000 ng/mL                   | Plasma            |
| Clopidogrel                                    | Antithrombotic                  | LC/MS/MS           | 50-14000 pg/mL                  | Plasma            |
| Colchicine                                     | Antigout                        | LC/MS/MS           | 50-8000 pg/mL                   | Plasma            |
| Cyclobenzaprine                                | Skeletal muscle relaxant        | LC/MS/MS           | 0.25-50 ng/mL                   | Plasma            |
| Cycloserine                                    | Antibacterial (Tuberculostatic) | LC/MS/MS           | 250-20000 ng/mL                 | Plasma            |
| Dabigatran (free)                              | Anticoagulant                   | LC/MS/MS           | 0.5-400 ng/mL                   | Plasma            |
| Dabigatran (total)                             | Anticoagulant                   | LC/MS/MS           | 0.5-400 ng/mL                   | Plasma            |
| Daclatasvir                                    | Hepatitis C treatment           | LC/MS/MS           | 10-3000 ng/mL                   | Plasma            |
| Danazol                                        | Androgenic                      | LC/MS/MS           | 0.5-400 ng/mL                   | Plasma            |
| Dapsone                                        | Antibacterial (Leprosy)         | LC/MS/MS           | 20-4500 ng/mL                   | Plasma            |
| Darifenacin                                    | Urinary incontinence            | LC/MS/MS           | 40-20000 pg/mL                  | Plasma            |
| Darunavir & Ritonavir                          | Antiretroviral                  | LC/MS/MS           | 100-14000 ng/mL & 12-3000 ng/mL | Plasma            |
| Dasatinib                                      | Anticancer                      | LC/MS/MS           | 1-300 ng/mL                     | Plasma            |
| Deferasirox                                    | Oral iron chelator              | LC/MS/MS           | 0.101-60.800 µg/mL              | Plasma            |
| Demeclocycline                                 | Antibiotic                      | LC/MS/MS           | 30-6000 ng/mL                   | Plasma            |
| Dexamphetamine                                 | CNS stimulant                   | LC/MS/MS           | 0.4-80 ng/mL                    | Plasma            |

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| Analyte(s)                                                                    | Therapeutic Class                          | Method of Analysis | Calibration Curve Range                                 | Biological Matrix |
|-------------------------------------------------------------------------------|--------------------------------------------|--------------------|---------------------------------------------------------|-------------------|
| Dexibuprofen                                                                  | NSAID                                      | LC/MS/MS           | 300-60000 ng/mL                                         | Plasma            |
| Dexlansoprazole                                                               | Antiulcer (PPI)                            | LC/MS/MS           | 20-3000 ng/mL                                           | Plasma            |
| Diflunisal                                                                    | Antiinflammatory                           | LC/MS/MS           | 1-100 µg/mL                                             | Plasma            |
| Diltiazem and its metabolites N-Des methyl Diltiazem and Des acetyl Diltiazem | Nondihydropyridine Calcium channel blocker | LC/MS/MS           | 2-360 ng/mL, 0.8 to 100 ng/mL & 0.4 to 40 ng/mL         | Plasma            |
| Dipyridamole (Aspirin & Salicylic acid)                                       | Antithrombotic                             | LC/MS/MS           | 15-6000 ng/mL                                           | Plasma            |
| Docetaxel                                                                     | Anticancer                                 | LC/MS/MS           | 10-6000 ng/mL                                           | Plasma            |
| Domperidone                                                                   | Antiemetic                                 | LC/MS/MS           | 0.1-30 ng/mL                                            | Plasma            |
| Donepezil                                                                     | Alzheimer's disease treatment              | LC/MS/MS           | 0.1-30 ng/mL                                            | Plasma            |
| Doxazosin                                                                     | Antihypertensive                           | LC/MS/MS           | 0.04-16 ng/mL                                           | Plasma            |
| Doxepin & Nor Doxepin                                                         | Antidepressant                             | LC/MS/MS           | 50-40000 & 100-25000 pg/mL; 0.3-200ng/mL & 0.3-40 ng/mL | Plasma            |
| Dronedaron & Desbutyl dronedarone                                             | Anti arrhythmic                            | LC/MS/MS           | 0.5-250 ng/mL                                           | Plasma            |
| Eletriptan                                                                    | Migraine treatment                         | LC/MS/MS           | 0.5-400 ng/mL                                           | Plasma            |
| Eltrombopag                                                                   | Low platelet counts treatment              | LC/MS/MS           | 100-20000 ng/mL                                         | Plasma            |
| Empagliflozin                                                                 | Antidiabetic                               | LC/MS/MS           | 5-1000 ng/mL                                            | Plasma            |
| Eperisone & Diclofenac                                                        | Antispasmodic; Anti-inflammatory           | LC/MS/MS           | 0.02-10 ng/mL & 28.125-3375 ng/mL                       | Plasma            |
| Erythromycin                                                                  | Antibiotic                                 | LC/MS/MS           | 20-6000 ng/mL                                           | Plasma            |
| Escitalopram                                                                  | Antidepressant                             | LC/MS/MS           | 0.2-40 ng/mL                                            | Plasma            |
| Esomeprazole                                                                  | Antiulcer (PPI)                            | LC/MS/MS           | 5-3500 ng/mL                                            | Plasma            |
| Eszopiclone                                                                   | Hypnotic                                   | LC/MS/MS           | 1-200 ng/mL                                             | Plasma            |
| Ethacrynic acid                                                               | Diuretic                                   | LC/MS/MS           | 1-1500 ng/mL                                            | Plasma            |
| Ethambutol                                                                    | Antibacterial (Tuberculostatic)            | LC/MS/MS           | 30-2000 ng/mL                                           | Plasma            |
| Etodolac                                                                      | NSAID                                      | LC/MS/MS           | 500-80000 ng/mL                                         | Plasma            |
| Etoricoxib                                                                    | NSAID                                      | LC/MS/MS           | 30-6000 ng/mL                                           | Plasma            |
| Etravirine                                                                    | Antiretroviral                             | LC/MS/MS           | 10-1600 ng/mL                                           | Plasma            |
| Everolimus                                                                    | Immunosuppressant                          | LC/MS/MS           | 50-25000 pg/mL                                          | Whole blood       |
| Ezetimibe (Total)                                                             | Dyslipidemia treatment                     | LC/MS/MS           | 0.5-200 ng/mL                                           | Plasma            |
| Famotidine                                                                    | Gastroesophageal Reflux Disease treatment  | LC/MS/MS           | 1-300 ng/mL                                             | Plasma            |
| Febuxostat                                                                    | Antigout                                   | LC/MS/MS           | 10-8000 ng/mL                                           | Plasma            |
| Felbamate                                                                     | Anticonvulsant                             | LC/MS/MS           | 300-60000 ng/mL                                         | Plasma            |
| Felodipine                                                                    | Antihypertensive                           | LC/MS/MS           | 0.1 – 20 ng/mL                                          | Plasma            |
| Fenofibric acid                                                               | Antihyperlipidemic                         | LC/MS/MS           | 0.2-20 µg/mL                                            | Plasma            |

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| Analyte(s)                                                    | Therapeutic Class           | Method of Analysis | Calibration Curve Range                          | Biological Matrix |
|---------------------------------------------------------------|-----------------------------|--------------------|--------------------------------------------------|-------------------|
| Fingolimod & Fingolimod Phosphate                             | Immunosuppressant           | LC/MS/MS           | 50-5000 pg/mL & 50-5000 pg/mL                    | Whole blood       |
| Fluconazole                                                   | Antifungal                  | LC/MS/MS           | 80-8000 ng/mL                                    | Plasma            |
| Fluoxetine and Norfluoxetine                                  | Antidepressant              | LC/MS/MS           | 0.4-100 ng/mL & 0.4-100 ng/mL                    | Plasma            |
| Fluticasone Propionate                                        | Corticosteroid              | LC/MS/MS           | 1-200 pg/mL                                      | Plasma            |
| Folic acid                                                    | Folate deficiency Treatment | LC/MS/MS           | 2-700 ng/mL                                      | Serum             |
| Frovatriptan                                                  | Migraine treatment          | LC/MS/MS           | 40-15000 pg/mL                                   | Plasma            |
| Gabapentin                                                    | Anticonvulsant              | LC/MS/MS           | 80-8000 ng/mL                                    | Plasma            |
| Gadolinium                                                    | MRI Contrast Agent          | ICPMS              | 0.05-40.0 µg/gm                                  | Skin              |
| Gadolinium                                                    | MRI Contrast Agent          | ICPMS              | 0.05-20 µg/gm                                    | Bone              |
| Glimepiride                                                   | Antidiabetic                | LC/MS/MS           | 1-200 ng/mL & 2-600 ng/mL                        | Plasma            |
| Glipizide                                                     | Antidiabetic                | LC/MS/MS           | 2-2000 ng/mL                                     | Plasma            |
| Granisetron & 7-hydroxy granisetron                           | Antiemetic                  | LC/MS/MS           | 100-15000 ng/mL & 10-2000 ng/mL                  | Plasma            |
| Griseofulvin                                                  | Antifungal                  | LC/MS/MS           | 10-2400 ng/mL                                    | Plasma            |
| Guaifenesin & Dextromethorphan                                | Expectorant                 | LC/MS/MS           | 30-5000 ng/mL & 0.1-40 ng/mL                     | Plasma            |
| Hydrochlorothiazide                                           | Antihypertensive            | LC/MS/MS           | 3-300 ng/mL                                      | Plasma            |
| Ibuprofen                                                     | NSAID                       | LC/MS/MS           | 250-40000 ng/mL                                  | Plasma            |
| Ibuprofen (Pseudoephedrine, Chlorpheniramine & Methocarbamol) | NSAID                       | LC/MS/MS           | 495-60000 ng/mL                                  | Plasma            |
| Imatinib                                                      | Antineoplastic              | LC/MS/MS           | 60-6000 ng/mL                                    | Plasma            |
| Imatinib & N-Desmethyl Imatinib                               | Antineoplastic              | LC/MS/MS           | 60-6000 ng/mL & 8-600 ng/mL                      | Plasma            |
| Indomethacin                                                  | NSAID                       | LC/MS/MS           | 75-6000 ng/mL                                    | Plasma            |
| Insulin                                                       | Antidiabetic                | LC/MS/MS           | 0.2-20 ng/mL                                     | Plasma            |
| Insulin & C-Peptide                                           | Antidiabetic                | ECLIA              | 0.16-7.214 ng/mL and 0.188-7.050 ng/mL           | Plasma            |
| Insulin Glargine and M1, M2 metabolites                       | Antidiabetic                | LC/MS/MS           | 0.2-12 ng/mL, 0.2-12 ng/mL<br>0.2-12 ng/mL       | Plasma            |
| Irbesartan                                                    | Antihypertensive            | LC/MS/MS           | 60-8000 ng/mL                                    | Plasma            |
| Iron                                                          | Electrolyte                 | ICPMS              | 6-600 µg/gm                                      | Bone/Skin         |
| Isoniazid, Ethambutol & Pyrazinamide(Rifampicin)              | Antitubercular              | LC/MS/MS           | 112-12000 ng/mL, 75-4000 ng/mL & 750-40000 ng/mL | Plasma            |
| Itraconazole and its metabolite OH itraconazole               | Antifungal                  | LC/MS/MS           | 0.5-500 ng/mL & 0.5-500 ng/mL                    | Plasma            |
| Ketoconazole                                                  | Antifungal                  | LC/MS/MS           | 20.1-8000 ng/mL                                  | Plasma            |
| Ketorolac                                                     | NSAID                       | LC/MS/MS           | 5-2000 ng/mL                                     | Plasma            |

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|--------------------------------------------|------------------------------------|--------------------|----------------------------------------------|-------------------|
| Labetalol                                  | Antihypertensive                   | LC/MS/MS           | 2-400 ng/mL                                  | Plasma            |
| Lacidipine                                 | Calcium channel blocker            | LC/MS/MS           | 50-20000 pg/mL                               | Plasma            |
| Lamivudine                                 | Antiretroviral                     | LC/MS/MS           | 50-7000 ng/mL                                | Plasma            |
| Lamivudine & Zidovudine                    | Antiretroviral                     | LC/MS/MS           | 20-3200 ng/mL & 40-5000 ng/mL                | Plasma            |
| Lamivudine (Tenofovir)                     | Antiretroviral                     | LC/MS/MS           | 50-5000 ng/mL                                | Plasma            |
| Lamivudine, Stavudine & Nevirapine         | Antiretroviral                     | LC/MS/MS           | 30-3000 ng/mL, 20-2000 ng/mL & 50-3200 ng/mL | Plasma            |
| Lamotrigine                                | Anticonvulsant                     | LC/MS/MS           | 10-5000 ng/mL                                | Plasma            |
| Lansoprazole                               | Antiulcer (PPI)                    | LC/MS/MS           | 20-2000 ng/mL                                | Plasma            |
| Lanthanum                                  | Hyperphosphatemia treatment        | ICPMS              | 100-3000 pg/mL                               | Plasma            |
| Ledipasvir                                 | Hepatitis C treatment              | LC/MS/MS           | 3-1200 ng/mL                                 | Plasma            |
| Leflunomide A771726                        | Antirheumatic                      | LC/MS/MS           | 40-3000 ng/mL                                | Plasma            |
| Letrozole                                  | Antineoplastic                     | LC/MS/MS           | 1-80 ng/mL                                   | Plasma            |
| Leucovorin & 5-methyl tetrahydrofolic acid | Chemo protectant                   | LC/MS/MS           | 5-1000 ng/mL & 5-1000 ng/mL                  | Plasma            |
| Levetiracetam                              | Anticonvulsant                     | LC/MS/MS           | 0.5-50 µg/mL                                 | Plasma            |
| Levocetirizine                             | Antiallergic                       | LC/MS/MS           | 4-600 ng/mL                                  | Plasma            |
| Levodopa & Carbidopa                       | Parkinsonism treatment             | LC/MS/MS           | 10-3000 ng/mL & 2-200 ng/mL                  | Plasma            |
| Liothyronine                               | Hypothyroidism treatment           | LC/MS/MS           | 0.2-20 ng/mL                                 | Plasma            |
| Lisinopril                                 | Antihypertensive                   | LC/MS/MS           | 1-100 ng/mL                                  | Plasma            |
| Lisinopril                                 | Antihypertensive                   | LC/MS/MS           | 1-600 ng/mL                                  | Plasma            |
| Losartan & Losartan carboxylic acid        | Antihypertensive                   | LC/MS/MS           | 10-2000 ng/mL & 10-2000 ng/mL                | Plasma            |
| Lumefantrine (Artemether)                  | Antimalarial                       | LC/MS/MS           | 100-20000 ng/mL                              | Plasma            |
| Lurasidone                                 | Antipsychotic                      | LC/MS/MS           | 0.4-400 ng/mL                                | Plasma            |
| Macitentan                                 | Endothelin receptor antagonist     | LC/MS/MS           | 2-2000 ng/mL                                 | Plasma            |
| Megestrol acetate                          | Appetite stimulant/ antineoplastic | LC/MS/MS           | 2-2400 ng/mL                                 | Plasma            |
| Memantine + Donepezil                      | Alzheimer's disease treatment      | LC/MS/MS           | 0.1-50 ng/mL & 0.4-80 ng/mL                  | Plasma            |
| Metaxalone                                 | Muscle relaxant                    | LC/MS/MS           | 25-8000 ng/mL                                | Plasma            |
| Metformin                                  | Antidiabetic                       | LC/MS/MS           | 5-2000 ng/mL & 20-2000 ng/mL                 | Plasma            |

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|---------------------------------------------------------------|---------------------------------|--------------------|----------------------------------------|--------------------------|
| Metformin & Glimepiride                                       | Antidiabetic                    | LC/MS/MS           | 10-3000 ng/mL & 2-300 ng/mL            | Plasma                   |
| Methimazole                                                   | Antithyroid                     | LC/MS/MS           | 5-800 ng/mL                            | Plasma                   |
| Methocarbamol (Ibuprofen, Pseudoephedrine & Chlorpheniramine) | Muscle relaxant                 | LC/MS/MS           | 200-20000 ng/mL                        | Plasma                   |
| Methotrexate                                                  | Antineoplastic & Antirheumatic  | LC/MS/MS           | 2-400 ng/mL                            | Plasma                   |
| Metoprolol                                                    | Antihypertensive                | LC/MS/MS           | 2-1600 ng/mL                           | Plasma                   |
| Metronidazole and Tetracycline                                | Antibiotic & Antiprotozoal      | LC/MS/MS           | 100-20000 ng/mL & 20-4000 ng/mL        | Plasma                   |
| Midazolam                                                     | Anticonvulsant; Sedative        | LC/MS/MS           | 1-140 ng/mL                            | Plasma                   |
| Mifepristone                                                  | Abortifacient                   | LC-MS/MS           | 20-4000 ng/mL                          | Plasma                   |
| Mirabegron                                                    | Over reactive bladder treatment | LC/MS/MS           | 0.2-100 ng/mL                          | Plasma                   |
| Montelukast                                                   | Asthma treatment                | LC/MS/MS           | 3-800 ng/mL                            | Plasma                   |
| Moxifloxacin                                                  | Antibacterial                   | LC/MS/MS           | 0.02-6 µg/mL                           | Plasma                   |
| Nepafenac & Amfenac                                           | NSAID                           | LC/MS/MS           | 3-600 ng/mL & 1-200 ng/mL              | Aqueous surrogate matrix |
| Nevirapine                                                    | Antiretroviral                  | LC/MS/MS           | 25-5000 ng/mL                          | Plasma                   |
| Niacin & Nicotinuric acid                                     | Antihyperlipidemic              | LC/MS/MS           | 50-20000 ng/mL & 10-7000 ng/mL         | Plasma                   |
| Nicorandil                                                    | Vasodilator                     | LC/MS/MS           | 5-1200 ng/mL                           | Plasma                   |
| Nifedipine                                                    | Antihypertensive                | LC/MS/MS           | 1-100 ng/mL, 1-300 ng/mL & 1-400 ng/mL | Plasma                   |
| Nilotinib                                                     | Antineoplastic                  | LC/MS/MS           | 3-900 ng/mL                            | Plasma                   |
| Nisoldipine                                                   | Antihypertensive                | LC/MS/MS           | 40-16000 pg/mL                         | Plasma                   |
| Octreotide                                                    | Somatostatic agent              | LC/MS/MS           | 15-8000 pg/mL                          | Plasma                   |
| Olanzapine                                                    | Antipsychotic                   | LC/MS/MS           | 0.2-40 ng/mL                           | Plasma                   |
| Olmesartan                                                    | Antihypertensive                | LC/MS/MS           | 10-4000 ng/mL                          | Plasma                   |
| Omeprazole                                                    | Antiulcer (PPI)                 | LC/MS/MS           | 10-3200 ng/mL                          | Plasma                   |
| Oseltamivir & Oseltamivir Carboxylate                         | Influenza A and B treatment     | LC/MS/MS           | 0.5-200 ng/mL & 2-800 mg/mL            | Plasma                   |
| Oxybutynin & Desethyl Oxybutynin                              | Urinary incontinence            | LC/MS/MS           | 0.1-30 ng/mL & 0.2-120 ng/mL           | Plasma                   |
| Paliperidone                                                  | Antipsychotic                   | LC/MS/MS           | 0.2-30 ng/mL                           | Plasma                   |
| Pantoprazole                                                  | Antiulcer (PPI)                 | LC/MS/MS           | 50-5000 ng/mL                          | Plasma                   |

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| Paracetamol                                                              | Antipyretic, analgesic          | LC/MS/MS           | 100-20000 ng/mL                   | Plasma            |
| Paroxetine                                                               | Antidepressant                  | LC/MS/MS           | 0.2-40 ng/mL                      | Plasma            |
| Phenytoin                                                                | Antiepileptic                   | LC/MS/MS           | 20-10000 ng/mL                    | Plasma            |
| Phosphorus                                                               | Electrolyte                     | ICPMS              | 200-10000 µg/gm                   | Bone/skin         |
| Phosphorus                                                               | Electrolyte                     | ICPMS              | 10-1000 µg/mL                     | Urine             |
| Pomalidomide                                                             | Immunomodulator                 | LC/MS/MS           | 0.5-150 ng/mL                     | Plasma            |
| Potassium                                                                | Electrolyte                     | ICPMS              | 50-2000 µg/mL                     | Urine             |
| Potassium                                                                | Electrolyte                     | ICPMS              | 200-10000 µg/gm                   | Bone/skin         |
| Pramipexole                                                              | Antiparkinsonian                | LC/MS/MS           | 50-2000 pg/mL                     | Plasma            |
| Praziquantel                                                             | Anthelmintic                    | LC/MS/MS           | 10-5000 ng/mL                     | Plasma            |
| Pregabalin                                                               | Anticonvulsant                  | LC/MS/MS           | 100-15000 ng/mL                   | Plasma            |
| Progesterone                                                             | Hormone                         | LC/MS/MS           | 300-800000 pg/mL                  | Plasma            |
| Proguanil & Cycloguanil                                                  | Antiparasitic                   | LC/MS/MS           | 1-300 ng/mL & 1-300 ng/mL         | Plasma            |
| Propafenone & 5 hydroxy propafenone                                      | Anti-arrhythmic                 | LC/MS/MS           | 0.1-400 ng/mL & 0.1-400 ng/mL     | Plasma            |
| Propofol                                                                 | General anesthesia              | LC/MS/MS           | 50-5000 ng/mL                     | Plasma            |
| Prothionamide                                                            | Antibacterial (Tuberculostatic) | LC/MS/MS           | 30-2800 ng/mL                     | Plasma            |
| Protryptiline                                                            | Antidepressant                  | LC/MS/MS           | 0.2-30 ng/mL                      | Plasma            |
| Quetiapine                                                               | Antipsychotic                   | LC/MS/MS           | 4 -1000 ng/ml                     | Plasma            |
| Rabeprazole                                                              | Antiulcer (PPI)                 | LC/MS/MS           | 5-2000 ng/mL                      | Plasma            |
| Raloxifene                                                               | Antiosteoporotic                | LC/MS/MS           | 30-900 pg/mL                      | Plasma            |
| Ramipril & Ramiprilat                                                    | Antihypertensive                | LC/MS/MS           | 0.2-50 ng/mL & 0.2-50 ng/mL       | Plasma            |
| Ranitidine                                                               | Antiulcer (H2 blocker)          | LC/MS/MS           | 10-2000 ng/mL                     | Plasma            |
| Ranolazine                                                               | Angina treatment                | LC/MS/MS           | 8-4000 ng/mL                      | Plasma            |
| Rifampicin & Desacetyl rifampicin (Isoniazid, Ethambutol & Pyrazinamide) | Antitubercular                  | LC/MS/MS           | 100-20000 ng/mL & 100-12000 ng/mL | Plasma            |
| Risperidone                                                              | Antipsychotic                   | LC/MS/MS           | 0.100-14.000 ng/mL                | Plasma            |
| Rivaroxaban                                                              | Anticoagulant                   | LC/MS/MS           | 2-1000 ng/mL                      | Plasma            |
| Rizatriptan                                                              | Migraine treatment              | LC/MS/MS           | 0.2-80 ng/mL                      | Plasma            |

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| Analyte(s)                                                                                     | Therapeutic Class                                 | Method of Analysis | Calibration Curve Range                                      | Biological Matrix |
|------------------------------------------------------------------------------------------------|---------------------------------------------------|--------------------|--------------------------------------------------------------|-------------------|
| Rosuvastatin                                                                                   | Dyslipidemia treatment                            | LC/MS/MS           | 0.3-100 ng/mL                                                | Plasma            |
| Salicyclic Acid (Aspirin & Dipyridamole)                                                       | Anti-inflammatory & Keratolytic                   | LC/MS/MS           | 250-16000 ng/mL                                              | Plasma            |
| Sarpogrelate and its M1metabolite                                                              | Antagonist to 5HT receptors                       | LC/MS/MS           | 5-1800 ng/mL & 2-200 ng/mL                                   | Plasma            |
| Selegiline & N-Desmethyl Selegiline                                                            | Antidepressant                                    | LC/MS/MS           | 10-16000 pg/mL & 50-30000 pg/mL                              | Plasma            |
| Sertraline                                                                                     | Antidepressant                                    | LC/MS/MS           | 0.25-50 ng/mL                                                | Plasma            |
| Sildenafil & N-desmethyl sildenafil                                                            | Erectile dysfunction treatment                    | LC/MS/MS           | 4.5-2200 ng/mL & 4-2000 ng/mL; 1-800 ng/mL & 0.4-400 ng/mL   | Plasma            |
| Simvastatin & $\beta$ Hydroxy simvastatin                                                      | Dyslipidemia treatment                            | LC/MS/MS           | 0.1-40 ng/mL                                                 | Plasma            |
| Simvastatin, $\beta$ Hydroxy simvastatin & Ezetimibe (free)                                    | Dyslipidemia treatment                            | LC/MS/MS           | 0.1-40 ng/mL, 0.1-40 ng/mL & 0.1-10 ng/mL                    | Plasma            |
| Sodium                                                                                         | Electrolyte                                       | ICPMS              | 200-10000 $\mu$ g/gm                                         | Bone/Skin         |
| Sofosbuvir                                                                                     | Hepatitis C treatment                             | LC/MS/MS           | 2-4000 ng/mL                                                 | Plasma            |
| Sofosbuvir and GS-331007                                                                       | Hepatitis C treatment                             | LC/MS/MS           | 10-1200 ng/mL & 14-2800 ng/mL; 2-6000 ng/mL & 14-2800 ng/mL  | Plasma            |
| Solifenacin                                                                                    | Antimuscarinic                                    | LC/MS/MS           | 0.5-150 ng/mL                                                | Plasma            |
| Sorafenib                                                                                      | Anticancer                                        | LC/MS/MS           | 30-8000 ng/mL                                                | Plasma            |
| Spironolactone & Canrenone                                                                     | Diuretic                                          | LC/MS/MS           | 5-400 ng/mL & 5-400 ng/mL                                    | Plasma            |
| Tadalafil                                                                                      | Erectile dysfunction                              | LC/MS/MS           | 5-1000 ng/mL                                                 | Plasma            |
| Tamoxifen and its metabolite N-desmethyl tamoxifen                                             | Anticancer                                        | LC/MS/MS           | 0.5-80 ng/mL & 0.2-40 ng/mL                                  | Plasma            |
| Telmisartan                                                                                    | Antihypertensive                                  | LC/MS/MS           | 5-1200 ng/mL                                                 | Plasma            |
| Tenofovir                                                                                      | Antiretroviral                                    | LC/MS/MS           | 5-1000 ng/mL                                                 | Plasma            |
| Tenofovir (Lamivudine)                                                                         | Antiretroviral                                    | LC/MS/MS           | 5-1000 ng/mL                                                 | Plasma            |
| Teriflunomide                                                                                  | Antirheumatic (DMARD)                             | LC/MS/MS           | 40-4000 ng/mL & 20-4000 ng/mL                                | Plasma            |
| Thalidomide                                                                                    | Immunomodulator                                   | LC/MS/MS           | 25-5000 ng/mL                                                | Plasma            |
| Theophylline                                                                                   | Bronchodilator (Bronchial smooth muscle relaxant) | LC/MS/MS           | 0.4-40 $\mu$ g/mL                                            | Plasma            |
| Tibolone and its metabolites $\Delta$ 4 isomer, 3 $\alpha$ OH tibolone & 3 $\beta$ OH tibolone | Hormone replacement therapy                       | LC/MS/MS           | 50-4000 pg/mL, 40-2000 pg/mL, 48-32000 pg/mL & 48-8000 pg/mL | Plasma            |
| Tofacitinib                                                                                    | Arthritis treatment                               | LC/MS/MS           | 0.5-100 ng/mL & 0.5-300 ng/mL                                | Plasma            |

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| Analyte(s)                                                                | Therapeutic Class              | Method of Analysis | Calibration Curve Range                                | Biological Matrix |
|---------------------------------------------------------------------------|--------------------------------|--------------------|--------------------------------------------------------|-------------------|
| Tramadol, O-Desmethyl Tramadol & N-O-Didesmethyl Tramadol                 | Analgesic                      | LC/MS/MS           | 2-400 ng/mL, 0.6-120 ng/mL & 0.4-80 ng/mL              | Plasma            |
| Trandolapril and Trandolaprilat                                           | Antihypertensive               | LC/MS/MS           | 0.1-40 ng/mL & 0.2-400 ng/mL                           | Plasma            |
| Triamterene                                                               | Diuretic                       | LC/MS/MS           | 1-400 ng/mL                                            | Plasma            |
| Trimetazidine                                                             | Antianginal                    | LC/MS/MS           | 2-150 ng/mL                                            | Plasma            |
| Trimethobenzamide                                                         | Antiemetic                     | LC/MS/MS           | 50 -10000 ng/mL                                        | Plasma            |
| Trimethoprim+Sulfamethoxazole                                             | Antibiotic                     | LC/MS/MS           | 0.05-7 µg/mL & 0.5-100 µg/mL                           | Plasma            |
| Trospium                                                                  | Urinary incontinence treatment | LC/MS/MS           | 20-12000 pg/mL                                         | Plasma            |
| Ursodeoxycholic acid, Glycoursodeoxycholicacid & Tauroursodeoxycholicacid | Cholagogues/Cholelitholytics   | LC/MS/MS           | 100-10000 ng/mL, 90-15000 ng/mL & 9-3000 ng/mL         | Plasma            |
| Valproic Acid                                                             | Anticonvulsant                 | LC/MS/MS           | 2-120 µg/mL                                            | Plasma            |
| Valsartan                                                                 | Antihypertensive               | LC/MS/MS           | 100-20000 ng/mL                                        | Plasma            |
| Vardenafil                                                                | Erectile dysfunction treatment | LC/MS/MS           | 0.5-60 ng/mL                                           | Plasma            |
| Velpatasvir                                                               | Hepatitis C treatment          | LC/MS/MS           | 8-1600 ng/mL                                           | Plasma            |
| Venlafaxine & O-Desmethyl Venlafaxine                                     | Antianxiety                    | LC/MS/MS           | 1.5-300 ng/mL & 2.5-500 ng/mL                          | Plasma            |
| Verapamil & Norverapamil                                                  | Antihypertensive               | LC/MS/MS           | 4-400 ng/mL & 4-400 ng/mL; 4-1500 ng/mL & 4-1200 ng/mL | Plasma            |
| Vilazodone                                                                | Antidepressant                 | LC/MS/MS           | 0.3-300 ng/mL                                          | Plasma            |
| Voriconazole                                                              | Antifungal                     | LC/MS/MS           | 10-6000 ng/mL                                          | Plasma            |
| Vortioxetine                                                              | Antidepressant                 | LC/MS/MS           | 0.5-80 ng/mL                                           | Plasma            |
| Zileuton                                                                  | Antiasthmatic                  | LC/MS/MS           | 25-10000 ng/mL                                         | Plasma            |
| Zinc                                                                      | Electrolyte                    | ICPMS              | 2-320 µg/gm                                            | Bone/Skin         |
| Ziprasidone                                                               | Antipsychotic                  | LC/MS/MS           | 0.2-200 ng/mL                                          | Plasma            |
| Zolmitriptan & N-Desmethyl Zolmitriptan                                   | Migraine treatment             | LC/MS/MS           | 160-16000 pg/mL & 160-16000 pg/mL                      | Plasma            |
| Zopiclone                                                                 | Hypnotic                       | LC/MS/MS           | 1-200 ng/mL                                            | Plasma            |

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