

# BIOANALYTICAL ASSAY LIST



## GLP Bioanalytical Validated Methods (August 2010)

| Drug*   | Biological Matrix | Analytical Technique | LLOQ                                    |
|---|-------------------|----------------------|---|
| Alendronate   | Human Urine       | LC/MS/MS             | 1 ng/mL                                 |
| Amphetamine /<br>Lisdexamfetamine   | Human Plasma      | LC/MS/MS             | 1 ng/mL /<br>0.5 ng/mL                  |
| Anastrozole   | Human Plasma      | LC/MS/MS             | 0.1 ng/mL                               |
| Armodafinil   | Human Plasma      | LC/MS/MS             | 100 ng/mL                               |
| Aspirin / Dipyridamole  | Human Plasma      | LC/MS/MS             | 5 ng/mL / 20 ng/mL                      |
| Atovaquone  | Human Plasma      | LC/MS/MS             | 2 ng/mL                                 |
| Atorvastatin /<br><i>ortho</i> -Hydroxy Atorvastatin /<br><i>para</i> -Hydroxy Atorvastatin | Human Plasma      | LC/MS/MS             | 0.2 ng/mL /<br>0.2 ng/mL /<br>0.2 ng/mL |
| Azacitidine   | Human Plasma      | LC/MS/MS             | 5 ng/mL                                 |
| Azathioprine / 6-Mercaptopurine   | Human Plasma      | LC/MS/MS             | 0.4 ng/mL /<br>0.4 ng/mL                |
| Bicalutamide  | Human Plasma      | LC/MS/MS             | 10 ng/mL                                |
| Budesonide / 6 $\beta$ -<br>hydroxybudesonide /<br>16 $\alpha$ -hydroxyprednisolone         | Human Plasma      | LC/MS/MS             | 0.1 ng/mL /<br>0.5 ng/mL /<br>1 ng/mL   |
| Cabergoline   | Human Plasma      | LC/MS/MS             | 0.5 pg/mL                               |
| Carvedilol  | Human Plasma      | LC/MS/MS             | 0.25 ng/mL                              |
| Cefpodoxime   | Dog Plasma        | LC/MS/MS             | 0.1 ng/mL                               |
| Ciprofloxacin   | Human Plasma      | LC/MS/MS             | 25 ng/mL                                |
| Desmopressin  | Human Plasma      | LC/MS/MS             | 4 pg/mL                                 |
| Dexlansoprazole   | Human Plasma      | LC/MS/MS             | 5 ng/mL                                 |
| Dextromethorphan /<br>Midazolam   | Human Plasma      | LC/MS/MS             | 0.1 ng/mL /<br>0.1 ng/mL                |
| Diclofenac / Lidocaine  | Porcine Plasma    | LC/MS/MS             | 0.5 ng/mL /<br>0.1 ng/mL                |
| Diethylpropion  | Human Plasma      | LC/MS/MS             | 1 ng/mL                                 |
| Docetaxel   | Human Plasma      | LC/MS/MS             | 5 ng/mL                                 |
| Donepezil   | Human Plasma      | LC/MSD               | 0.5 ng/mL                               |
| Doxylamine  | Human Plasma      | LC/MS/MS             | 0.5 ng/mL                               |
| Entecavir   | Human Plasma      | LC/MS/MS             | 1 pg/mL                                 |
| Fenofibrate   | Human Plasma      | LC/MS/MS             | 10 ng/mL                                |
| Fluoxetine  | Human Plasma      | LC/MS/MS             | 0.1 ng/mL                               |
| Fluticasone Propionate  | Human Plasma      | LC/MS/MS             | 3 pg/mL                                 |
| Formoterol fumarate   | Human Plasma      | LC/MS/MS             | 2 pg/mL                                 |
| Gabapentin  | Human Plasma      | LC/MS/MS             | 10 ng/mL                                |
| Gemcitabine   | Human Plasma      | LC/MS/MS             | 200 ng/mL                               |
| Imatinib  | Human Plasma      | LC/MS/MS             | 10 ng/mL                                |
| Ibandronate   | Human Plasma      | LC/MS/MS             | 1 ng/mL                                 |
| Lamotrigine   | Human Plasma      | LC/MS/MS             | 25 ng/mL                                |
| Lansoprazole  | Human Plasma      | LC/MS/MS             | 2 ng/mL                                 |

\*Drugs analyzed in the presence of each other are separated by a slash (/).

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## GLP Bioanalytical Validated Methods (August 2010) - continued

| Drug*  | Biological Matrix | Analytical Technique | LLOQ                                       |
|--|-------------------|----------------------|--|
| Lenalidomide   | Human Plasma      | LC/MS/MS             | 1 ng/mL                                    |
| Levetiracetam  | Human Plasma      | LC/MS/MS             | 100 ng/mL                                  |
| Lidocaine  | Human Plasma      | LC/MS/MS             | 0.1 ng/mL                                  |
| Mesalazine /<br>N-acetyl-mesalazine  | Human Plasma      | LC/MS/MS             | 5 ng/mL /<br>5 ng/mL                       |
| Methylphenidate  | Human Plasma      | LC/MS/MS             | 0.1 ng/mL /<br>0.1 ng/mL                   |
| Monensin   | Bovine Plasma     | LC/MS/MS             | 0.05 ng/mL                                 |
| Morphine /<br>Morphine 3D-glucuronide (M3G)<br>Morphine 6D-glucuronide (M6G) | Human Plasma      | LC/MS/MS             | 0.5 ng/mL /<br>10 ng/mL /<br>1 ng/mL       |
| Nateglinide  | Human Plasma      | LC/MS/MS             | 100 ng/mL                                  |
| Niacin / Nicotinic Acid /<br>Nicotinamide                                    | Human Plasma      | LC/MS/MS             | 0.5 ng/mL /<br>20 ng/mL /<br>5 ng/mL       |
| Niacin and Nicotinic Acid  | Human Plasma      | LC/MS/MS             | 0.5 ng/mL /<br>0.5 ng/mL                   |
| Nilotinib  | Human Plasma      | LC/MS/MS             | 5 ng/mL                                    |
| Nitroglycerin /<br>1,2-dinitroglycerin /<br>1,3-dinitroglycerin              | Human Plasma      | LC/MS/MS             | 20 pg/mL /<br>50 pg/mL /<br>50 pg/mL       |
| Olanzapine   | Human Plasma      | LC/MS/MS             | 0.1 ng/mL                                  |
| Omeprazole   | Human Plasma      | LC/MS/MS             | 10 ng/mL                                   |
| Ondansetron  | Human Plasma      | LC/MS/MS             | 0.4 ng/mL                                  |
| Oxcarbazepine / 10, 11-dihydro-<br>10-hydroxycarbamazepine<br>(MHD)          | Human Plasma      | LC/MS/MS             | 20 ng/mL /<br>200 ng/mL                    |
| Oxycodone /<br>Noroxycodone /<br>Oxymorphone                                 | Human Plasma      | LC/MS/MS             | 0.5 ng/mL /<br>0.25 ng/mL /<br>0.025 ng/mL |
| Paclitaxel   | Human Plasma      | LC/MS/MS             | 5 ng/mL                                    |
| Paliperidone   | Human Plasma      | LC/MS/MS             | 0.050 ng/mL                                |
| Penciclovir  | Human Plasma      | LC/MS/MS             | 20 ng/mL                                   |
| Phentermine / Topiramate   | Human Plasma      | LC/MS/MS             | 0.2 ng/mL /<br>5 ng/mL                     |
| Phentermine / Topiramate   | Human Plasma      | LC/MS/MS             | 1.0 ng/mL /<br>20.0 ng/mL                  |
| Pregabalin   | Human Plasma      | LC/MS/MS             | 10 ng/mL                                   |
| Proguanil / Cycloguanil /<br>1-(4-Chlorophenyl) biguanide                    | Human Plasma      | LC/MS/MS             | 0.2 ng/mL /<br>0.5 ng/mL /<br>0.2 ng/mL    |
| Pseudoephedrine  | Human Plasma      | LC/MS/MS             | 2 ng/mL                                    |
| Raloxifene   | Human Plasma      | LC/MS/MS             | 5 pg/mL                                    |
| Paclitaxel   | Human Plasma      | LC/MS/MS             | 5 ng/mL                                    |
| Quetiapine   | Human Plasma      | LC/MS/MS             | 4 ng/mL                                    |
| Ribavirin  | Human Plasma      | LC/MS/MS             | 10 ng/mL                                   |
| Rifaximin  | Human Plasma      | LC/MS/MS             | 0.1 ng/mL                                  |

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| Drug*   | Biological Matrix | Analytical Technique | LLOQ                     |
| Risperidone / 9-OH-Risperidone                                | Human Plasma      | LC/MS/MS             | 0.1 ng/mL / 0.1 ng/mL    |
| Rivastigmine / NAP 226-90                                     | Human Plasma      | LC/MS/MS             | 5 pg/mL / 5 pg/mL        |
| Rivastigmine / NAP 226-90                                     | Human Plasma      | LC/MS/MS             | 0.1 ng/mL / 0.05 ng/mL   |
| Rivastigmine / NAP 226-90                                     | Human Plasma      | LC-MS/MS             | 0.05 ng/mL / 0.025 ng/mL |
| Scopolamine   | Human Plasma      | LC/MS/MS             | 2 pg/mL                  |
| Sertraline  | Human Plasma      | LC/MS/MS             | 0.25 ng/mL               |
| Tramadol / O-desmethyltramadol                                | Human Plasma      | LC/MS/MS             | 2ng/mL / 0.5 ng/mL       |
| Tranexamic Acid   | Human Plasma      | LC/MS/MS             | 50 ng/mL                 |
| Venlafaxine and 4 metabolites (deuterated)                    | Rat Plasma        | LC/MS/MS             | 1 ng/mL                  |
| Venlafaxine and 4 metabolites (deuterated)                    | Dog Plasma        | LC/MS/MS             | 1 ng/mL                  |
| Verapamil / Norverapamil                                      | Human Plasma      | LC/MS/MS             | 1 ng/mL                  |
| Voriconazole  | Human Plasma      | LC/MS/MS             | 10 ng/mL                 |

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