



## LIST OF VALIDATED METHODS JANUARY 2012

| Compound (Metabolite)   | Matrix       | Calibration Range  | Method   | Sample Volume | Anti-Coagulant      | Storage Temp ° C | Lab Site | Method Status* | Method I.D. |
|---|--------------|--|----------|---------------|---------------------|------------------|----------|----------------|-------------|
| 4- $\alpha$ -Hydroxycholesterol<br>4- $\beta$ -Hydroxycholesterol                       | Human Plasma | 2.0-500 ng/mL<br>2.0-500 ng/mL                                 | LC/MS/MS | 0.025 mL      | K <sub>2</sub> EDTA | -20              | Richmond | Inactive       | LCMSC546    |
| 6-Methoxy-2-Naphthylacetic acid<br><i>aka Nabumetone metabolite</i>                     | Human Plasma | 0.5-100 $\mu$ g/mL   | HPLC/FL  | 0.05 mL       | EDTA                | -20              | Richmond | Inactive       | LC184       |
| 3-Hydroxymandelic Acid  | Human Urine  | 100-5000 ng/mL   | LC/MS/MS | 0.05 mL       | None                | -70              | Madison  | Active         | P957.00     |
| Acetaminophen   | Human Plasma | 0.025-10 $\mu$ g/mL  | HPLC/UV  | 0.5 mL        | Sodium Heparin      | -20              | Richmond | Inactive       | LC12.1      |
|   | Human Urine  | 0.5-250 $\mu$ g/mL   | HPLC/UV  | 0.2 mL        | None                | -20              | Richmond | Inactive       | LC12.3      |
|   | Human Plasma | 0.2-50 $\mu$ g/mL  | HPLC/UV  | 0.5 mL        | Sodium Heparin      | -20              | Madison  | Active         | P089.03     |
|   | Human Plasma | 0.2-50 $\mu$ g/mL  | HPLC/UV  | 0.1 mL        | EDTA                | -20              | Madison  | Active         | P829.00     |
|   | Dog Plasma   | 0.2-100 $\mu$ g/mL   | HPLC/UV  | 0.3 mL        | Sodium Heparin      | -20              | Madison  | Inactive       | P363.00     |
| Acetaminophen & Oxycodone   | Human Plasma | 0.1-50 $\mu$ g/mL<br>0.1-100 ng/mL                             | LC/MS/MS | 0.1 mL        | K <sub>2</sub> EDTA | -20              | Madison  | Active         | P1036.00    |
| Acetaminophen<br>(Acetaminophen sulfate)<br>(p-Acetamidophenyl- $\beta$ -D-glucuronide) | Human Urine  | 0.2-200 $\mu$ g/mL<br>0.5-500 $\mu$ g/mL<br>1-1,000 $\mu$ g/mL | LC/MS/MS | 0.025 mL      | None                | -20              | Madison  | Active         | P851.00     |
|   | Human Plasma | 0.1-50 $\mu$ g/mL<br>0.1-50 $\mu$ g/mL<br>0.5-100 $\mu$ g/mL   | LC/MS/MS | 0.05 mL       | K <sub>2</sub> EDTA | -20              | Madison  | Active         | P852.00     |
| Acyclovir   | Human Plasma | 5-1,000 ng/mL  | HPLC/UV  | 0.5 mL        | Sodium Heparin      | -20              | Richmond | Inactive       | LC189       |

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| Adefovir  | Human Plasma  | 0.1-50 ng/mL                                 | LC/MS/MS | 0.3 mL        | K <sub>2</sub> EDTA | -20              | Madison  | Active         | P1053.00    |
| Adiponectin   | Human Serum   | 185-23,695 ng/mL                             | ELISA    | 0.01 mL       | None                | -70              | Richmond | Active         | ICD287      |
| Albendazole (Sulfoxide & Sulfone Metabolites)             | Bovine Plasma | 0.05-5 µg/mL<br>0.05-5 µg/mL                 | HPLC/UV  | 0.5 mL        | Sodium Heparin      | -20              | Madison  | Inactive       | P562.02     |
| Albuterol   | Human Plasma  | 2-4,000 pg/mL                                | LC/MS/MS | 0.5 mL        | Sodium Heparin      | -20              | Madison  | Active         | P951.00     |
|   | Human Urine   | 20-2,000 ng/mL                               | LC/MS/MS | 0.1 mL        | None                | -20              | Madison  | Inactive       | P465.01     |
|   | Dog Plasma    | 0.2-20 ng/mL                                 | LC/MS/MS | 1.0 mL        | Sodium Heparin      | -20              | Madison  | Inactive       | P464.01     |
|   | Rat Plasma    | 0.4-400 ng/mL                                | LC/MS/MS | 0.25 mL       | Sodium Heparin      | -20              | Madison  | Inactive       | P463.00     |
| Alprazolam  | Human Plasma  | 0.25-40 ng/mL                                | LC/MS/MS | 0.5 mL        | Sodium Heparin      | -20              | Richmond | Active         | LCMS225     |
| Alprazolam (α-Hydroxyalprazolam)<br>(4-Hydroxyalprazolam) | Human Plasma  | 0.2-40 ng/mL<br>0.2-40 ng/mL<br>0.2-40 ng/mL | LC/MS/MS | 0.3 mL        | Sodium Heparin      | -20              | Madison  | Active         | P335.06     |
| Ambrisentan (4-Hydroxymethyl Ambrisentan)                 | Human Plasma  | 1-400 ng/mL<br>0.25 -100 ng/mL               | LC/MS/MS | 0.1 mL        | Sodium Citrate      | -20              | Richmond | Active         | LCMSC498    |
|   | Human Plasma  | 1-500 ng/mL<br>0.25-125 ng/mL                | LC/MS/MS | 0.1 mL        | K <sub>2</sub> EDTA | -20              | Richmond | Active         | LCMSC498.1  |
| Amitriptyline (Nortriptyline)                             | Human Plasma  | 0.5-200 ng/mL<br>0.5-200 ng/mL               | LC/MS/MS | 0.25 mL       | Sodium Heparin      | -20              | Madison  | Active         | P558.01     |

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| Amitriptyline (Nortriptyline)   | Rabbit Plasma       | 1-500 ng/mL<br>1-500 ng/mL                   | LC/MS/MS        | 0.1 mL        | Sodium Heparin           | -20              | Madison        | Inactive       | P647.00         |
| Amitriptyline   | Human Plasma        | 0.5-200 ng/mL                                | LC/MS/MS        | 0.25 mL       | Sodium Heparin           | -20              | Richmond       | Active         | LCMS301         |
| Amlodipine  | Human Plasma        | 0.1-50 ng/mL                                 | LC/MS/MS        | 0.2 mL        | Sodium Heparin           | -20              | Richmond       | Active         | LCMS151         |
| Amoxicillin   | Human Serum         | 50-25,000 ng/ml                              | LC/MS/MS        | 0.1 mL        | None                     | -70              | Richmond       | Active         | LCMS141         |
|   | Human Plasma        | 50-25,000 ng/ml                              | LC/MS/MS        | 0.1 mL        | K <sub>3</sub> EDTA      | -70              | Richmond       | Active         | LCMS141.2       |
| <b>Asenapine (Desmethyiasenapine)</b>                                 | <b>Human Plasma</b> | <b>0.05-50 ng/mL<br/>0.05-50 ng/mL</b>       | <b>LC/MS/MS</b> | <b>0.3 mL</b> | <b>K<sub>2</sub>EDTA</b> | <b>-20</b>       | <b>Madison</b> | <b>Active</b>  | <b>P1120.00</b> |
| Atazanavir & Ritonavir  | Human Plasma        | 10-10,000 ng/mL                              | LC/MS/MS        | 0.05 mL       | K <sub>3</sub> EDTA      | -20              | Madison        | Active         | P1012           |
| Atenolol  | Human Whole Blood   | 10-1,000 ng/mL                               | HPLC/FL         | 1.0 mL        | Sodium Heparin           | -20              | Madison        | Inactive       | P161.01         |
| Aripiprazole (Dehydroaripiprazole)                                    | Human Plasma        | 0.5-250 ng/mL<br>0.1-50 ng/mL                | LC/MS/MS        | 0.25 mL       | K <sub>2</sub> EDTA      | -20              | Richmond       | Active         | LCMS 386        |
| Atovaquone  | Human Plasma        | 0.025-10 µg/mL                               | LC/MS/MS        | 0.025 mL      | K <sub>2</sub> EDTA      | -20              | Richmond       | Active         | LCMS360         |
| Atorvastatin (Ortho-hydroxy atorvastatin) (Para-hydroxy atorvastatin) | Human Plasma        | 0.1-75 ng/mL<br>0.1-75 ng/mL<br>0.1-75 ng/mL | LC/MS/MS        | 0.1 mL        | Sodium Heparin           | -70              | Richmond       | Active         | LCMS120         |
|   | Human Plasma        | 0.1-75 ng/mL<br>0.1-75 ng/mL<br>0.1-75 ng/mL | LC/MS/MS        | 0.1 mL        | Sodium Heparin           | -70              | Madison        | Active         | P913.00         |

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|---|----------------------------------|--|----------|---------------|-----------------------------------|------------------|----------|----------------|-------------|
| Atorvastatin<br>(Ortho-hydroxy atorvastatin)<br>(Para-hydroxy atorvastatin)       | Rat Plasma                       | 0.1-75 ng/mL<br>0.1-75 ng/mL<br>0.1-75 ng/mL | LC/MS/MS | 0.1 mL        | Sodium Heparin                    | -70              | Richmond | Active         | LCMS120.3   |
| Avastin <i>aka</i> <i>Bevacizumab</i>   | Human Serum                      | 10-2,560 ng/mL                               | MSD-ECL  | 0.025 mL      | None                              | -70              | Richmond | Active         | ICD343      |
| Azacitadine   | Human Plasma                     | 1-2,000 ng/mL                                | LC/MS/MS | 0.05 mL       | K <sub>2</sub> EDTA               | -70              | Madison  | Active         | P1040.00    |
| Azithromycin  | Human Plasma                     | 2.5-1,000 ng/mL                              | LC/MS/MS | 0.1 mL        | K <sub>3</sub> EDTA               | -20              | Richmond | Inactive       | LCMS168     |
| Azidothymidine (AZT)  | Human Plasma                     | 50-25,000 ng/mL                              | HPLC/UV  | 0.25 mL       | Sodium Heparin                    | -20              | Richmond | Inactive       | LC96        |
|   | Human Urine                      | 0.2-25 µg/mL                                 | HPLC/UV  | 1.0 mL        | None                              | -20              | Richmond | Inactive       | LC96.1      |
| Beclomethasone<br>(Beclomethasone-17-propionate)<br>(Beclomethasone dipropionate) | Human Plasma                     | 1-250 pg/mL<br>1-250 pg/mL<br>1-250 pg/mL    | LC/MS/MS | 1.0 mL        | Potassium Oxalate/Sodium Fluoride | -70              | Richmond | Inactive       | LCMSC333    |
| Benazepril<br>(Benazeprilat)  | Human Plasma                     | 10-1,000 ng/mL<br>10-1,000 ng/mL             | LC/MS/MS | 0.05 mL       | Na <sub>2</sub> EDTA              | -20              | Richmond | Active         | LCMS107     |
| Bicalutamide  | Human Plasma                     | 10-1,250 ng/mL                               | LC/MS/MS | 0.05 mL       | K <sub>3</sub> EDTA               | -20              | Richmond | Active         | LCMS318     |
| Bisoprolol  | Human Plasma                     | 0.5-200 ng/mL                                | LC/MS/MS | 0.1 mL        | Sodium Heparin                    | -20              | Richmond | Active         | LCMSB501    |
| Bortezomib  | Human Plasma<br>with Formic Acid | 0.5-500 ng/mL                                | LC/MS/MS | 0.1 mL        | Sodium Heparin                    | -70              | Richmond | Active         | LCMS509     |
| Brompheniramine   | Human Plasma                     | 0.05-20 ng/mL                                | LC/MS/MS | 0.1 mL        | Lithium Heparin                   | -20              | Richmond | Active         | LCMSC436    |

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|--|--------------|--|----------|---------------|---------------------|------------------|----------|----------------|-------------|
| Budesonide   | Human Plasma | 10-2,500 pg/mL   | LC/MS/MS | 0.25 mL       | K <sub>3</sub> EDTA | -20              | Madison  | Active         | P429.00     |
| Buprenorphine (Norbuprenorphine) & Naloxone                                      | Human Plasma | 50-10,000 pg/mL<br>50-10,000 pg/mL<br>5-500 pg/mL          | LC/MS/MS | 0.5 mL        | K <sub>3</sub> EDTA | -20              | Madison  | Active         | P942.01     |
| Bupropion (Hydroxybupropion) (Erythrohydroxybupropion) (Threoxyhydroxybupropion) | Human Plasma | 0.5-200 ng/mL<br>1-400 ng/mL<br>1-400 ng/mL<br>1-400 ng/mL | LC/MS/MS | 0.1 mL        | K <sub>2</sub> EDTA | -70              | Madison  | Active         | P986.00     |
| Butalbital   | Human Plasma | 0.05-25 µg/mL  | HPLC/UV  | 0.25 mL       | Sodium Heparin      | -20              | Richmond | Inactive       | LC196       |
|  | Human Plasma | 0.1-10 µg/mL   | HPLC/UV  | 0.5 mL        | Sodium Heparin      | -20              | Madison  | Inactive       | P301.00     |
| Caffeine (1,7-Dimethylxanthine)  | Human Plasma | 20-20,000 ng/mL<br>20-20,000 ng/mL                         | LC/MS/MS | 0.15 mL       | Sodium Heparin      | -20              | Richmond | Active         | LCMSC207    |
|  | Human Plasma | 25-25,000 ng/mL<br>25-25,000 ng/mL                         | LC/MS/MS | 0.05 mL       | Sodium Heparin      | -20              | Madison  | Active         | P734.03     |
|  | Human Urine  | 50-50,000 ng/mL<br>50-50,000 ng/mL                         | LC/MS/MS | 0.025 mL      | None                | -20              | Madison  | Active         | P739.03     |
| Candesartan  | Human Plasma | 0.5-400 ng/mL  | LC/MS/MS | 0.1 mL        | K <sub>2</sub> EDTA | -20              | Richmond | Active         | LCMSC451    |
|  | Human Urine  | 10-5,000 ng/mL   | LC/MS/MS | 0.05 mL       | None                | -20              | Richmond | Active         | LCMSC451.1  |
| Carbidopa & Levodopa   | Human Plasma | 0.5-250 ng/mL<br>5-2,500 ng/mL                             | LC/MS/MS | 0.2 mL        | K <sub>3</sub> EDTA | -70              | Madison  | Active         | P838.00     |

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|---|----------------------------|--|-----------------|----------------|------------------------|------------------|----------------|----------------|-----------------|
| Carbidopa (3-O-MethylDopa) & Levodopa                       | Human Plasma               | 10-5,000 ng/mL<br>400-25,000 ng/mL<br>10-5,000 ng/mL | LC/MS/MS        | 0.05 mL        | K <sub>3</sub> EDTA    | -70              | Madison        | Active         | P1104           |
| Carbamazepine (Carbamazepine 10,11 Epoxide)                 | Human Plasma               | 0.05-50 µg/mL<br>0.05-50 µg/mL                       | LC/MS/MS        | 0.05 mL        | Sodium Heparin         | -20              | Madison        | Active         | P626.00         |
| Carbamazepine, Free (unbound) (Carbamazepine 10,11 Epoxide) | Human Plasma Ultrafiltrate | 0.1-20 µg/mL<br>0.1-20 µg/mL                         | HPLC/UV         | 0.25 mL        | Sodium Heparin         | -20              | Madison        | Inactive       | P238.02         |
| (Carbamazepine 10,11 Epoxide)                               | Human Urine                | 0.1-20 µg/mL   | HPLC/UV         | 0.25 mL        | None                   | -20              | Madison        | Inactive       | P257.01         |
| (Monohydroxycarbamazepine)                                  | Human Plasma               | 1-50 µg/mL   | LC/MS/MS        | 0.05 mL        | Sodium Heparin         | -70              | Madison        | Active         | P886.00         |
| <b>Carprofen</b>  | <b>Dog Plasma</b>          | <b>20-20,000 ng/mL</b>                               | <b>LC/MS/MS</b> | <b>0.03 mL</b> | <b>Lithium Heparin</b> | <b>-20</b>       | <b>Madison</b> | <b>Active</b>  | <b>P1082.00</b> |
| Carvedilol  | Human Plasma               | 0.1-50 ng/mL   | LC/MS/MS        | 0.2 mL         | Sodium Heparin         | -20              | Madison        | Active         | P789.01         |
| Cefaclor  | Human Plasma               | 0.1-25 µg/mL   | HPLC/UV         | 0.5 mL         | Sodium Heparin         | -70              | Richmond       | Inactive       | LC305           |
| Cefadroxil  | Human Serum                | 0.25-50 µg/mL  | HPLC/UV         | 0.10 mL        | None                   | -70              | Richmond       | Inactive       | LC52            |
|   | Human Urine                | 5-1,000 µg/mL  | HPLC/UV         | 0.05 mL        | None                   | -20              | Richmond       | Inactive       | LC52.1          |
| Celecoxib   | Human Plasma               | 5-2,000 ng/mL  | LC/MS/MS        | 0.05 mL        | Sodium Heparin         | -20              | Richmond       | Active         | LCMSD417        |
| Celiprolol  | Human Plasma               | 10-2,000 ng/mL                                       | HPLC/UV         | 1.0 mL         | Sodium Heparin         | -20              | Richmond       | Inactive       | LC30            |

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| Cephalexin                                    | Human Plasma         | 0.1-100 µg/mL                    | LC/MS/MS        | 0.05 mL       | K <sub>3</sub> EDTA       | -20              | Richmond       | Active         | LCMSB382        |
| Cetirizine                                    | Human Plasma         | 0.5-500 ng/mL                    | LC/MS/MS        | 0.05 mL       | K <sub>3</sub> EDTA       | -20              | Richmond       | Active         | LCMSB169        |
| Chlorpheniramine                              | Human Plasma         | 0.25-50 ng/mL                    | LC/MS/MS        | 0.05 mL       | Sodium Heparin            | -20              | Richmond       | Active         | LCMS214         |
| Chlorthalidone                                | Human Plasma         | 2-1,000 ng/mL                    | LC/MS/MS        | 0.25 mL       | Sodium Heparin            | -20              | Richmond       | Active         | LCMS389.2       |
|   | Human Urine          | 10-5,000 ng/mL                   | LC/MS/MS        | 0.1 mL        | None                      | -20              | Richmond       | Active         | LCMS389.1       |
| Chlorzoxazone<br>(6-Hydroxychlorzoxazone)     | Human Plasma         | 5-5,000 ng/mL<br>5-5,000 ng/mL   | LC/MS/MS        | 0.05 mL       | Sodium Heparin            | -20              | Richmond       | Active         | LCMS209         |
| <b>Clenbuterol</b>                            | <b>Equine Plasma</b> | <b>12.5-1,000<br/>pg/mL</b>      | <b>LC/MS/MS</b> | <b>1.0 mL</b> | <b>Sodium<br/>Heparin</b> | <b>-20</b>       | <b>Madison</b> | <b>Active</b>  | <b>P1119.00</b> |
| Cimetidine                                    | Human Urine          | 5.0-5,000 µg/mL                  | HPLC/UV         | 0.05 mL       | None                      | -20              | Richmond       | Inactive       | LC358.1         |
|   | Human Plasma         | 0.01-10 µg/mL                    | HPLC/UV         | 0.5 mL        | Sodium Heparin            | -20              | Richmond       | Inactive       | LC358           |
| Ciprofloxacin                                 | Human Plasma         | 25-10,000 ng/mL                  | LC/MS/MS        | 0.05 mL       | K <sub>3</sub> EDTA       | -20              | Richmond       | Active         | LCMS176         |
| Citalopram                                    | Human Plasma         | 1-500 ng/mL                      | LC/MS/MS        | 0.2 mL        | Sodium Heparin            | -20              | Richmond       | Active         | LCMS332         |
| Citalopram<br>(Desmethylcitalopram)           | Human Plasma         | 1-500 ng/mL<br>0.2-100 ng/mL     | LC/MS/MS        | 0.2 mL        | Sodium Heparin            | -20              | Madison        | Inactive       | P787.00         |
|   | Human Plasma         | 1-500 ng/mL<br>0.2-100 ng/mL     | LC/MS/MS        | 0.2 mL        | Sodium Heparin            | -20              | Richmond       | Active         | LCMSB332.2      |
| Clarithromycin<br>(14-Hydroxyclearithromycin) | Human Plasma         | 20-10,000 ng/mL<br>5-2,500 ng/mL | LC/MS/MS        | 0.1 mL        | Sodium Heparin            | -20              | Richmond       | Active         | LCMSB179        |

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| Clavulanic Acid  | Feline Plasma | 0.1-10 µg/mL   | LC/MS/MS | 0.2 mL        | Sodium Heparin      | -80              | Madison  | Active          | P997.00     |
| Clavulanic Acid  | Canine Plasma | 0.1-10 µg/mL   | LC/MS/MS | 0.2 mL        | Sodium Heparin      | -70              | Madison  | Active          | P990.00     |
| Clopidogrel (Clopidogrel Acid)   | Human Plasma  | 0.2-200 ng/mL<br>10-10,000 ng/mL   | LC/MS/MS | 0.1 mL        | K <sub>2</sub> EDTA | -20              | Richmond | Active          | LCMS271     |
| Clorsulon  | Bovine Plasma | 0.1-10 ng/mL   | LC/MS/MS | 1.0 mL        | Sodium Heparin      | -20              | Madison  | <b>Inactive</b> | P717.00     |
| Cocktail Assay, "Epilepsy"<br>Carbamazepine<br>Lamotrigine<br>Phenobarbital<br>Phenytoin<br>Topiramate | Human Plasma  | 0.1-50 µg/mL<br>0.1-20 µg/mL<br>0.1-50 µg/mL<br>0.1-30 µg/mL<br>0.1-50 µg/mL | LC/MS/MS | 0.1 mL        | Sodium Heparin      | -20              | Madison  | Active          | P837.00     |
| Cocktail Assay, "Antiviral"<br>Darunavir<br>Lopinavir<br>Raltegravir<br>Ritonavir                      | Human Plasma  | 10-10,000 ng/mL<br>10-10,000 ng/mL<br>10-10,000 ng/mL<br>10-10,000 ng/mL     | LC/MS/MS | 0.1 mL        | K <sub>3</sub> EDTA | -20              | Madison  | Active          | P1002.01    |
| Codeine & Morphine (Morphine-3-β-glucuronide) (Morphine-6-β-glucuronide)                               | Human Plasma  | 1-100 ng/mL<br>0.2-20 ng/mL<br>2-200 ng/mL<br>0.5-50 ng/mL                   | LC/MS/MS | 0.25 mL       | Sodium Heparin      | -20              | Richmond | Active          | LCMSC396    |

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| Codeine & Morphine & Guafenesin   | Human Plasma        | 0.1-100 ng/mL<br>0.2-20 ng/mL<br>2-2,000 ng/mL     | LC/MS/MS        | 0.3 mL         | Sodium Heparin           | -20              | Madison         | Active          | P919.02           |
| Cortisol (6β-Hydroxycortisol)   | Human Urine         | 1-200 ng/mL<br>6-1,200 ng/mL                       | LC/MS/MS        | 0.1 mL         | None                     | -20              | Richmond        | Active          | LCMSC355          |
| Cortisol <i>aka hydrocortisone</i><br>Cortisone   | Human Urine         | 1-250 ng/mL<br>1-250 ng/mL                         | LC/MS/MS        | 0.05 mL        | None                     | -70              | Richmond        | Active          | LCMSC472          |
|   | Human Serum         | 1-500 ng/mL<br>0.5-250 ng/mL                       | LC/MS/MS        | 0.05 mL        | None                     | -70              | Richmond        | Active          | LCMSD472.1        |
|   | <b>Human Plasma</b> | <b>1-500 ng/mL<br/>0.5-250 ng/mL</b>               | <b>LC/MS/MS</b> | <b>0.05 mL</b> | <b>K<sub>2</sub>EDTA</b> | <b>-70</b>       | <b>Richmond</b> | <b>Active</b>   | <b>LCMSD472.2</b> |
| 5-α-Tetrahydrocortisol (5-α-THF)<br>5-β-Tetrahydrocortisol (5-β-THF)<br>Tetrahydrocortisone (THE) | Human Urine         | 20-5,000 ng/mL<br>20-5,000 ng/mL<br>20-5,000 ng/mL | LC/MS/MS        | 0.05 mL        | None                     | -70              | Richmond        | Active          | LCMSC471          |
| Cyclophosphamide  | Human Plasma        | 0.25–50 µg/mL                                      | HPLC/UV         | 0.25 mL        | Sodium Heparin           | -20              | Richmond        | <b>Inactive</b> | LC232             |
| D4T   | Human Plasma        | 0.025-25 µg/mL                                     | HPLC/UV         | 0.5 mL         | Sodium Heparin           | -20              | Richmond        | <b>Inactive</b> | LC211             |
| Danazol   | Human Plasma        | 2-200 ng/mL  | HPLC/UV         | 1.0 mL         | Sodium Heparin           | -20              | Richmond        | <b>Inactive</b> | LC18              |
| Darunavir<br>See "Cocktail Assay Antiviral"   | Human Plasma        | 10-10,000 ng/mL                                    | LC/MS/MS        | 0.1 mL         | K <sub>3</sub> EDTA      | -20              | Madison         | Active          | P1002.00          |
| Daunorubicin (Daunorubicinol)   | Human Plasma        | 5-200 ng/mL<br>5-200 ng/mL                         | HPLC/FL         | 0.5 mL         | Sodium Heparin           | -20              | Richmond        | <b>Inactive</b> | LC301             |

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## LIST OF VALIDATED METHODS JANUARY 2012

| Compound (Metabolite)                   | Matrix       | Calibration Range                  | Method   | Sample Volume | Anti-Coagulant      | Storage Temp ° C | Lab Site | Method Status* | Method I.D. |
|---|--------------|------------------------------------|----------|---------------|---------------------|------------------|----------|----------------|-------------|
| Dasatinib<br>(DeshydroxyethylDasatinib) | Human Plasma | 0.2-200 ng/mL<br>0.05-50 ng/mL     | LC/MS/MS | 0.25 mL       | K <sub>2</sub> EDTA | -20              | Madison  | Active         | P1027       |
| Deracoxib                               | Dog Plasma   | 10-10,000 ng/mL                    | LC/MS/MS | 0.05 mL       | K <sub>2</sub> EDTA | -20              | Madison  | Active         | P1094       |
| Desipramine<br>(2-Hydroxydesipramine)   | Human Plasma | 0.25-100 ng/mL<br>0.25-100 ng/mL   | LC/MS/MS | 0.1 mL        | Sodium Heparin      | -20              | Richmond | Active         | LCMS103     |
|   | Human Urine  | 10-2,500 ng/mL<br>100-25,000 ng/mL | LC/MS/MS | 0.05 mL       | None                | -70              | Richmond | Active         | LCMS103.1   |
|   | Human Plasma | 0.25-100 ng/mL<br>0.25-100 ng/mL   | LC/MS/MS | 0.1 mL        | Sodium Heparin      | -20              | Madison  | Active         | P644.01     |
| Dexamethasone                           | Human Plasma | 0.5-500 ng/mL                      | LC/MS/MS | 0.2 mL        | K <sub>2</sub> EDTA | -20              | Richmond | Active         | LCMS328     |
| Dexlansoprazole                         | Human Plasma | 5-5,000 ng/mL                      | LC/MS/MS | 0.05 mL       | K <sub>2</sub> EDTA | -20              | Madison  | Active         | P1026.02    |
| Dextromethorphan                        | Human Plasma | 10 -5,000 pg/mL                    | LC/MS/MS | 0.5 mL        | Sodium Heparin      | -20              | Madison  | Active         | P732.01     |
| Dextromethorphan<br>(Dextrophan)        | Dog Plasma   | 2.5-500 ng/mL<br>2.5-500 ng/mL     | HPLC/FL  | 0.2 mL        | Sodium Heparin      | -20              | Madison  | Inactive       | P423.00     |
|   | Rat Plasma   | 5-1,000 ng/mL<br>5-1,000 ng/mL     | HPLC/FL  | 0.1 mL        | Sodium Heparin      | -20              | Madison  | Inactive       | P422.00     |
|   | Human Plasma | 0.05- 50 ng/mL<br>0.8-800 ng/mL    | LC/MS/MS | 0.1 mL        | Sodium Heparin      | -20              | Madison  | Active         | P668.05     |

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## LIST OF VALIDATED METHODS JANUARY 2012

| Compound (Metabolite)   | Matrix       | Calibration Range  | Method   | Sample Volume | Anti-Coagulant      | Storage Temp ° C | Lab Site | Method Status* | Method I.D. |
|---|--------------|--|----------|---------------|---------------------|------------------|----------|----------------|-------------|
| Dextromethorphan, Total** & Unconjugated (Dextrophan) (3-methoxymorphinan) (3-hydroxymorphinan) | Human Urine  | 0.001-1.0 µg/mL<br>0.020-20 µg/mL<br>0.001-1.00 µg/mL<br>0.01-10.0 µg/mL | LC/MS/MS | 0.05 mL       | None                | -20              | Madison  | Active         | P600.07     |
| Dextromethorphan & Pseudoephedrine  | Human Plasma | 10-5,000 pg/mL<br>0.8-400 ng/mL  | LC/MS/MS | 0.5 mL        | Sodium Heparin      | -20              | Madison  | Active         | P617.02     |
| Diazepam (N-Desmethyldiazepam)  | Human Plasma | 2-1,000 ng/mL<br>1-500 ng/mL   | LC/MS/MS | 0.05 mL       | K <sub>2</sub> EDTA | -20              | Richmond | Active         | LCMS 466    |
| Diclofenac  | Human Plasma | 0.1-100 ng/mL  | LC/MS/MS | 0.25 mL       | Sodium Heparin      | -20              | Richmond | Inactive       | LCMSC368    |
|   | Human Plasma | 0.1-100 ng/mL  | LC/MS/MS | 0.25 mL       | Sodium Heparin      | -20              | Madison  | Active         | P1121.00    |
| Diclofenac (4'-hydroxydiclofenac)   | Human Plasma | 10-2,000 ng/mL<br>2.5-500 ng/mL  | LC/MS/MS | 0.2 mL        | Sodium Heparin      | -20              | Richmond | Active         | LCMSB368.1  |
| Dienogest   | Human Plasma | 0.2-200 ng/mL  | LC/MS/MS | 0.2 mL        | K <sub>2</sub> EDTA | -20              | Madison  | Active         | P1063.00    |
| Digoxin   | Human Plasma | 0.15-8 ng/mL   | RIA      | 0.2 mL        | Sodium Heparin      | -70              | Richmond | Active         | ICD11.1     |
|   | Human Serum  | 0.15-8 ng/mL   | RIA      | 0.1 mL        | None                | -70              | Richmond | Active         | ICD11.3     |
|   | Human Urine  | 1-40 ng/mL   | RIA      | 0.1 mL        | None                | -70              | Richmond | Active         | ICD11.2     |
|   | Human Plasma | 0.1-4 ng/mL  | RIA      | 0.4 mL        | EDTA                | -70              | Richmond | Active         | ICD11.5     |
|   | Human Plasma | 0.1-50 ng/mL   | LC/MS/MS | 0.1 mL        | Sodium Heparin      | -20              | Richmond | Active         | LCMSC455    |

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## LIST OF VALIDATED METHODS JANUARY 2012

| Compound (Metabolite)                                     | Matrix       | Calibration Range                               | Method   | Sample Volume | Anti-Coagulant      | Storage Temp ° C | Lab Site | Method Status* | Method I.D. |
|---|--------------|---|----------|---------------|---------------------|------------------|----------|----------------|-------------|
|   | Human Plasma | 0.1-50 ng/mL                                    | LC/MS/MS | 0.1 mL        | K <sub>2</sub> EDTA | -20              | Richmond | Active         | LCMSC455.1  |
|   | Human Plasma | 0.05-50 ng/mL                                   | LC/MS/MS | 0.1 mL        | K <sub>2</sub> EDTA | -20              | Richmond | Active         | LCMSD455.2  |
|   | Human Plasma | 0.01-10 ng/mL                                   | LC/MS/MS | 0.15 mL       | K <sub>2</sub> EDTA | -20              | Richmond | Active         | LCMSD455.3  |
| Diltiazem<br>(Desacetyldiltiazem)<br>(Desmethyldiltiazem) | Human Plasma | 0.1-200 ng/mL<br>0.1-200 ng/mL<br>0.1-200 ng/mL | LC/MS/MS | 0.4 mL        | Sodium Heparin      | -70              | Madison  | Active         | P672.03     |
| Diphenhydramine   | Human Plasma | 0.2-200 ng/mL                                   | LC/MS/MS | 0.25 mL       | K <sub>3</sub> EDTA | -20              | Madison  | Active         | P912.01     |
| Docetaxel   | Human Plasma | 10-5,000 ng/mL                                  | LC/MS/MS | 0.1 mL        | Sodium Heparin      | -20              | Richmond | Active         | LCMSB216    |
| Donepezil   | Human Plasma | 0.2-50 ng/mL                                    | LC/MS/MS | 0.2 mL        | Sodium Heparin      | -20              | Richmond | Active         | LCMSB203    |
|   | Human Plasma | 0.2-100 ng/mL                                   | LC/MS/MS | 0.1 mL        | Sodium Heparin      | -20              | Madison  | Active         | P983.00     |
|   | Rat Plasma   | 0.5-250 ng/mL                                   | LC/MS/MS | 0.02 mL       | K <sub>2</sub> EDTA | -20              | Madison  | Active         | P1054.00    |
| Doxazosin   | Human Plasma | 0.05-50 ng/mL                                   | HPLC/FL  | 1.0 mL        | Sodium Heparin      | -20              | Richmond | Inactive       | LC266       |
| Doxepin<br>(Desmethyldoxepin)                             | Human Plasma | 0.5-250 ng/mL<br>0.5-250 ng/mL                  | LC/MS/MS | 0.1 mL        | Sodium Heparin      | -20              | Madison  | Active         | P815.01     |
| Doxorubicin   | Human Plasma | 1-200 ng/mL                                     | HPLC/FL  | 0.5 mL        | Sodium Heparin      | -70              | Richmond | Inactive       | LC252       |
| Doxycycline   | Human Plasma | 0.1-10 µg/mL                                    | LC/MS/MS | 0.025 mL      | Sodium Heparin      | -20              | Richmond | Active         | LCMS511     |

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## LIST OF VALIDATED METHODS JANUARY 2012

| Compound (Metabolite)            | Matrix            | Calibration Range                | Method          | Sample Volume | Anti-Coagulant       | Storage Temp ° C | Lab Site | Method Status* | Method I.D. |
|----------------------------------|-------------------|----------------------------------|-----------------|---------------|----------------------|------------------|----------|----------------|-------------|
| Drospirenone & Ethinyl Estradiol | Human Plasma      | 0.5-200 ng/mL<br>2-800 pg/mL     | LC/MS/MS        | 0.5 mL        | K <sub>2</sub> EDTA  | -20              | Richmond | Active         | LCMSC545    |
| Duloxetine                       | Human Plasma      | 0.2-200 ng/mL                    | LC/MS/MS        | 0.5 mL        | K <sub>2</sub> EDTA  | -20              | Madison  | Active         | P882.00     |
| Dutasteride & Tamsulosin         | Human Plasma      | 0.025-25 ng/mL<br>0.025-25 ng/mL | LC/MS/MS        | 0.2 mL        | K <sub>2</sub> EDTA  | -20              | Madison  | Active         | P1068       |
| Efavirenz                        | Human Plasma      | 0.10-10 µg/mL                    | LC/MS/MS        | 0.05 mL       | K <sub>2</sub> EDTA  | -20              | Richmond | Active         | LCMSB517    |
|                                  | Human Whole Blood | 0.10-25 µg/mL                    | DBS by LC/MS/MS | 0.1 to 0.3 mL | K <sub>2</sub> EDTA  | Room Temp        | Richmond | Active         | LCMS517.1   |
| Emtricitabine & Tenofovir        | Human Plasma      | 20-4,000 ng/mL<br>5-1,000 ng/mL  | LC/MS/MS        | 0.05 mL       | K <sub>2</sub> EDTA  | -20              | Richmond | Active         | LCMSC 468   |
|                                  | Human Plasma      | 5-1,000 ng/mL<br>20-4,000 ng/mL  | LC/MS/MS        | 0.05 mL       | K <sub>2</sub> EDTA  | -20              | Madison  | Active         | P947.01     |
| Enalapril (Enalaprilat)          | Human Plasma      | 0.25-100 ng/mL<br>0.25-100 ng/mL | LC/MS/MS        | 0.25 mL       | Sodium Heparin       | -20              | Madison  | Inactive       | P435.00     |
|                                  | Human Plasma      | 0.5-250 ng/mL<br>0.5-250 ng/mL   | LC/MS/MS        | 0.05 mL       | Sodium Heparin       | -20              | Richmond | Inactive       | LCMS31      |
|                                  | Dog Plasma        | 0.25-400 ng/mL<br>0.25-400 ng/mL | LC/MS/MS        | 0.25 mL       | Sodium Heparin       | -20              | Madison  | Inactive       | P532.01     |
| Enoxaparin using Factor XA       | Human Plasma      | 0.04-0.5 IU/mL                   | Chromogenic     | 0.05 mL       | Sodium Citrate       | -70              | Richmond | Active         | ICD 326     |
| Epinephrine                      | Human Plasma      | 0.05-8 ng/mL                     | HPLC/FL         | 1.0 mL        | Sodium Metabisulfite | -20              | Madison  | Active         | P981.02     |

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## LIST OF VALIDATED METHODS JANUARY 2012

| Compound (Metabolite)           | Matrix                             | Calibration Range                               | Method          | Sample Volume | Anti-Coagulant                    | Storage Temp ° C | Lab Site        | Method Status* | Method I.D.     |
|---------------------------------|------------------------------------|---|-----------------|---------------|-----------------------------------|------------------|-----------------|----------------|-----------------|
| Erlotinib                       | Human Plasma                       | 10-10,000 ng/mL                                 | LC/MS/MS        | 0.05 mL       | Sodium Heparin                    | -20              | Richmond        | Active         | LCMSC390        |
|                                 | Human Plasma                       | 10-10,000 ng/mL                                 | LC/MS/MS        | 0.05 mL       | K <sub>2</sub> EDTA               | -20              | Richmond        | Active         | LCMSC390.1      |
|                                 | Human Plasma                       | 10-10,000 ng/mL                                 | LC/MS/MS        | 0.025 mL      | Sodium Heparin                    | -20              | Madison         | Active         | P1008.01        |
|                                 | Human Plasma                       | 5-5,000 ng/mL                                   | LC/MS/MS        | 0.025 mL      | Sodium Heparin                    | -20              | Madison         | Active         | P1016           |
| Erythromycin                    | Human Plasma                       | 0.2-20 µg/mL                                    | LC/MS/MS        | 0.05 mL       | K <sub>2</sub> EDTA               | -20              | Richmond        | Active         | LCMS463         |
| Estazolam                       | Human Plasma                       | 0.1-30 ng/mL                                    | LC/MS/MS        | 1.0 mL        | Sodium Heparin                    | -20              | Madison         | Inactive       | P336.00         |
| β-Estradiol & Equilin & Estrone | Human Plasma                       | 1.0-100 pg/mL<br>5.0-500 pg/mL<br>5.0-500 pg/mL | LC/MS/MS        | 0.5 mL        | K <sub>3</sub> EDTA               | -70              | Richmond        | Active         | LCMSC350        |
|                                 | Human Serum                        | 1.0-100 pg/mL<br>5.0-500 pg/mL<br>5.0-500 pg/mL | LC/MS/MS        | 0.5 mL        | None                              | -70              | Richmond        | Active         | LCMSC350.1      |
| β-Estradiol, Total**            | Human Serum                        | 0.025-10 ng/mL                                  | LC/MS/MS        | 0.1 mL        | None                              | -70              | Richmond        | Inactive       | LCMS295         |
| Estrone Sulfate                 | Human Serum                        | 50-5,000 pg/mL                                  | LC/MS/MS        | 0.5 mL        | None                              | -70              | Richmond        | Active         | LCMS27.1        |
| Estrone, Total**                | Human Serum                        | 20-5,000 pg/mL                                  | LC/MS/MS        | 0.5 mL        | None                              | -70              | Richmond        | Active         | LCMSC351.3      |
| Ethanol                         | Human Plasma                       | 20-1,000 µg/mL                                  | GC/FID          | 0.1 mL        | Potassium Oxalate/Sodium Fluoride | -20              | Richmond        | Active         | GC89            |
| Exenatide                       | <b>Human Plasma with Aprotinin</b> | <b>10-1,000 pg/mL</b>                           | <b>LC/MS/MS</b> | <b>0.3 mL</b> | <b>K<sub>2</sub>EDTA</b>          | <b>-70</b>       | <b>Richmond</b> | <b>Active</b>  | <b>LCMSD566</b> |

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## LIST OF VALIDATED METHODS JANUARY 2012

| Compound (Metabolite)             | Matrix            | Calibration Range                | Method   | Sample Volume | Anti-Coagulant                    | Storage Temp ° C | Lab Site | Method Status* | Method I.D. |
|-----------------------------------|-------------------|----------------------------------|----------|---------------|-----------------------------------|------------------|----------|----------------|-------------|
| Ethinyl Estradiol & Drospirenone  | Human Plasma      | 2-800 pg/mL<br>0.5-200 ng/mL     | LC/MS/MS | 0.5 mL        | K <sub>2</sub> EDTA               | -20              | Richmond | Active         | LCMSC545    |
| Ethinyl Estradiol & Norethindrone | Human Plasma      | 2-500 pg/mL<br>50-25,000 pg/mL   | LC/MS/MS | 0.5 mL        | Sodium Heparin                    | -20              | Richmond | Active         | LCMSC255    |
| Ethinyl Estradiol & Norgestrel    | Human Plasma      | 2-500 pg/mL<br>50-25,000 pg/mL   | LC/MS/MS | 0.5 mL        | Potassium Oxalate/Sodium Fluoride | -70              | Richmond | Active         | LCMSC256    |
| Ethinyl Estradiol Sulfate         | Human Plasma      | 50-10,000 pg/mL                  | LC/MS/MS | 0.25 mL       | Sodium Heparin                    | -20              | Richmond | Active         | LCMSC398    |
| Etodolac                          | Human Plasma      | 0.2-50 µg/mL                     | HPLC/UV  | 1.0 mL        | Sodium Heparin                    | -20              | Richmond | Inactive       | LC193       |
| Etoposide                         | Human Plasma      | 0.02-20 µg/mL                    | LC/MS/MS | 0.05 mL       | K <sub>2</sub> EDTA               | -20              | Richmond | Active         | LCMS515     |
| Etoricoxib                        | Human Plasma      | 5-2500 ng/mL                     | LC/MS/MS | 0.05 mL       | K <sub>2</sub> EDTA               | -20              | Madison  | Active         | P971.01     |
| Etravirine & Ritonavir            | Human Plasma      | 0.5-500 ng/ml<br>10-10,000 ng/mL | LC/MS/MS | 0.2 mL        | K <sub>2</sub> EDTA               | -20              | Madison  | Active         | P1031.00    |
| Everolimus                        | Human Whole Blood | 0.2-200 ng/mL                    | LC/MS/MS | 0.5 mL        | K <sub>2</sub> EDTA               | -20              | Madison  | Active         | P1022.01    |
| Ezetimibe                         | Human Plasma      | 0.2-100 ng/mL                    | LC/MS/MS | 0.1 mL        | K <sub>2</sub> EDTA               | -20              | Richmond | Active         | LCMSC439    |
|                                   | Human Plasma      | 0.2-100 ng/mL                    | LC/MS/MS | 0.1 mL        | K <sub>2</sub> EDTA               | -20              | Madison  | Active         | P945.00     |
| Ezetimibe, Total                  | Human Plasma      | 1.0-500 ng/mL                    | LC/MS/MS | 0.1 mL        | K <sub>2</sub> EDTA               | -20              | Richmond | Active         | LCMSC440    |
|                                   | Human Plasma      | 1.0-500 ng/mL                    | LC/MS/MS | 0.1 mL        | K <sub>2</sub> EDTA               | -20              | Madison  | Active         | P944.00     |
| Famotidine                        | Human Plasma      | 5-250 ng/mL                      | HPLC/UV  | 1.0 mL        | Sodium Heparin                    | -20              | Madison  | Inactive       | P255.01     |

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## LIST OF VALIDATED METHODS JANUARY 2012

| Compound (Metabolite)                         | Matrix        | Calibration Range                            | Method   | Sample Volume | Anti-Coagulant      | Storage Temp ° C | Lab Site | Method Status* | Method I.D. |
|---|---------------|--|----------|---------------|---------------------|------------------|----------|----------------|-------------|
| Fenofibric Acid                               | Human Plasma  | 0.05-30 µg/mL                                | LC/MS/MS | 0.05 mL       | Sodium Heparin      | -20              | Richmond | Active         | LCMSB235    |
|   | Human Plasma  | 0.5-30 µg/mL                                 | LC/MS/MS | 0.05 mL       | Sodium Heparin      | -20              | Madison  | Active         | P1043.00    |
| Fentanyl                                      | Human Plasma  | 25-10,000 pg/mL                              | LC/MS/MS | 0.1 mL        | K <sub>2</sub> EDTA | -20              | Richmond | Active         | LCMSB186.5  |
|   | Human Plasma  | 5-2,000 pg/mL                                | LC/MS/MS | 0.25 mL       | K <sub>3</sub> EDTA | -20              | Richmond | Active         | LCMSC186.4  |
|   | Human Serum   | 10-2,000 pg/mL                               | LC/MS/MS | 0.1 mL        | None                | -20              | Madison  | Active         | P869.01     |
| Fentanyl                                      | Dog Plasma    | 40-40,000 pg/mL                              | LC/MS/MS | 0.1 mL        | K <sub>2</sub> EDTA | -20              | Madison  | Active         | P966.00     |
| Fentanyl (Norfentanyl)                        | Mouse Plasma  | 0.04-40 ng/mL<br>0.04-40 ng/mL               | LC/MS/MS | 0.1 mL        | K <sub>2</sub> EDTA | -20              | Madison  | Active         | P637.02     |
|   | Rat Plasma    | 0.04-40 ng/mL<br>0.04-40 ng/mL               | LC/MS/MS | 0.1 mL        | K <sub>2</sub> EDTA | -20              | Madison  | Active         | P823.01     |
|   | Rabbit Plasma | 0.04-40 ng/mL<br>0.04-40 ng/mL               | LC/MS/MS | 0.2 mL        | K <sub>2</sub> EDTA | -20              | Madison  | Active         | P636.01     |
|   | Human Plasma  | 10-500 pg/mL<br>10-500 pg/mL<br>10-500 pg/mL | LC/MS/MS | 0.5 mL        | K <sub>3</sub> EDTA | -20              | Madison  | Active         | P624.02     |
| Fentanyl (Norfentanyl) (DespropionylFentanyl) | Human Plasma  | 10-500 pg/mL<br>10-500 pg/mL<br>10-500 pg/mL | LC/MS/MS | 0.5 mL        | K <sub>3</sub> EDTA | -20              | Madison  | Active         | P624.02     |
|   | Human Plasma  | 10-500 pg/mL<br>10-500 pg/mL<br>10-500 pg/mL | LC/MS/MS | 0.5 mL        | K <sub>3</sub> EDTA | -20              | Madison  | Active         | P624.02     |
| Fexofenadine                                  | Human Plasma  | 0.5-500 ng/mL                                | LC/MS/MS | 0.1 mL        | Sodium Heparin      | -20              | Madison  | Active         | P745.04     |
|   | Human Urine   | 0.05-10 µg/mL                                | LC/MS/MS | 0.02 mL       | None                | -20              | Madison  | Active         | P746.04     |
| Fluconazole                                   | Human Plasma  | 20-10,000 ng/mL                              | LC/MS/MS | 0.05 mL       | Sodium Heparin      | -20              | Madison  | Active         | P791.00     |
| Flunixin                                      | Equine Plasma | 10-5,000 ng/mL                               | LC/MS/MS | 0.025 mL      | Sodium Heparin      | -70              | Madison  | Active         | P970.00     |

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| Compound (Metabolite)                | Matrix              | Calibration Range                | Method          | Sample Volume  | Anti-Coagulant                           | Storage Temp ° C | Lab Site       | Method Status*  | Method I.D.     |
|--------------------------------------|---------------------|----------------------------------|-----------------|----------------|--|------------------|----------------|-----------------|-----------------|
| Fluoxetine (Norfluoxetine)           | Human Plasma        | 0.25-100 ng/mL<br>0.25-100 ng/mL | LC/MS/MS        | 0.2 mL         | Sodium Heparin                           | -20              | Richmond       | Active          | LCMS52          |
| <b>Flucytosine</b>                   | <b>Human Plasma</b> | <b>50-50,000 ng/mL</b>           | <b>LC/MS/MS</b> | <b>0.05 mL</b> | <b>K<sub>2</sub>EDTA</b>                 | <b>-20</b>       | <b>Madison</b> | <b>Active</b>   | <b>P1125.00</b> |
| Fluticasone Propionate               | Human Plasma        | 1.0-500 pg/mL                    | LC/MS/MS        | 1.0 mL         | Potassium Oxalate/Sodium Fluoride        | -20              | Madison        | Active          | P817.02         |
| Fluticasone Furoate                  | Human Plasma        | 0.2-40 pg/mL                     | LC/MS/MS        | 1.0 mL         | Potassium Oxalate/Sodium Fluoride        | -20              | Madison        | Active          | P1084           |
| Fluticasone Propionate & Salmeterol  | Human Plasma        | 1-200 pg/mL<br>1-200 pg/mL       | LC/MS/MS        | 1.0 mL         | Potassium Oxalate/Sodium Fluoride        | -20              | Madison        | Active          | P988            |
| Fluvoxamine                          | Human Plasma        | 0.5-500 ng/mL                    | LC/MS/MS        | 0.1 mL         | Sodium Heparin                           | -20              | Madison        | Active          | P658.01         |
| Formoterol                           | Human Plasma        | 0.5-250 pg/mL                    | LC/MS/MS        | 0.5 mL         | Lithium Heparin with Eserine hemisulfate | -20              | Madison        | Active          | P860.02         |
|                                      | Human Plasma        | 0.25-125 pg/mL                   | LC/MS/MS        | 1.0 mL         | Lithium Heparin with Eserine hemisulfate | -20              | Madison        | Active          | P996.00         |
|                                      | Human Urine         | 6.0-1,200 pg/mL                  | LC/MS/MS        | 0.1 mL         | None                                     | -20              | Madison        | Active          | P883.01         |
| Formoterol Enantiomers (R,R and S,S) | Human Urine         | 6.0-1,200 pg/mL each             | LC/MS/MS        | 0.5 mL         | None                                     | -20              | Madison        | Active          | P868.00         |
| Furosemide                           | Human Urine         | 0.05-15 µg/mL                    | HPLC/FL         | 1.0 mL         | None                                     | -20              | Madison        | <b>Inactive</b> | P376.00         |
|                                      | Human Plasma        | 0.02-10 µg/mL                    | HPLC/FL         | 0.5 mL         | Sodium Heparin                           | -20              | Madison        | <b>Inactive</b> | P372.01         |
|                                      | Human Plasma        | 0.02-10 µg/mL                    | HPLC/FL         | 0.2 mL         | Sodium Heparin                           | -20              | Richmond       | <b>Inactive</b> | LC354           |

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## LIST OF VALIDATED METHODS JANUARY 2012

| Compound (Metabolite)                                 | Matrix              | Calibration Range                              | Method          | Sample Volume  | Anti-Coagulant          | Storage Temp ° C | Lab Site        | Method Status* | Method I.D.      |
|---|---------------------|--|-----------------|----------------|-------------------------|------------------|-----------------|----------------|------------------|
|   | Human Urine         | 0.2-50 µg/mL                                   | LC/MS/MS        | 0.2 mL         | None                    | -20              | Richmond        | Active         | LCMS317          |
| Gabapentin  | Human Plasma        | 0.05- 10 µg/mL                                 | LC/MS/MS        | 0.2 mL         | K <sub>3</sub> EDTA     | -20              | Richmond        | Active         | LCMS359          |
|   | <b>Human Plasma</b> | <b>50-50,000 ng/mL</b>                         | <b>LC/MS/MS</b> | <b>0.05 mL</b> | <b>Sodium Heparin</b>   | <b>-20</b>       | <b>Richmond</b> | <b>Active</b>  | <b>LCMS359.3</b> |
| Galanthamine  | Human Plasma        | 0.1-100 ng/mL                                  | LC/MS/MS        | 0.25 mL        | K <sub>3</sub> EDTA     | -20              | Richmond        | Active         | LCMSB312         |
| Gatifloxacin  | Human Plasma        | 0.025-10 µg/mL                                 | LC/MS/MS        | 0.05 mL        | K <sub>3</sub> EDTA     | -20              | Richmond        | Active         | LCMSB285         |
| Gefitinib   | Human Plasma        | 0.5-500 ng/mL                                  | LC/MS/MS        | 0.05 mL        | K <sub>2</sub> EDTA     | -20              | Richmond        | Active         | LCMS522          |
| Gemfibrozil   | Human Plasma        | 0.05-25 µg/mL                                  | HPLC/FL         | 0.5 mL         | Sodium Heparin          | -20              | Richmond        | Inactive       | LC56             |
|   | Human Plasma        | 0.05-50 µg/mL                                  | HPLC/UV         | 0.5 mL         | Sodium Heparin and EDTA | -20              | Madison         | Inactive       | P115.00          |
| Glimepiride   | Human Plasma        | 2-1,000 ng/mL                                  | LC/MS/MS        | 0.1 mL         | K <sub>3</sub> EDTA     | -20              | Richmond        | Active         | LCMS266          |
| Glipizide   | Human Plasma        | 1-500 ng/mL                                    | LC/MS/MS        | 0.1 mL         | K <sub>3</sub> EDTA     | -20              | Richmond        | Active         | LCMS137          |
| Glyburide   | Human Plasma        | 1-500 ng/mL                                    | LC/MS/MS        | 0.25 mL        | K <sub>3</sub> EDTA     | -20              | Richmond        | Active         | LCMS159          |
| Glyburide<br><i>Lower range for pediatric studies</i> | Human Plasma        | 0.10-50 ng/mL                                  | LC/MS/MS        | 0.25 mL        | K <sub>3</sub> EDTA     | -20              | Richmond        | Active         | LCMS159.1        |
| Guaifenesin   | Human Plasma        | 2-2,000 ng/mL                                  | LC/MS/MS        | 0.075 mL       | Sodium Heparin          | -20              | Madison         | Active         | P973.00          |
| Guaifenesin &<br>Codeine &<br>Morphine                | Human Plasma        | 2-2,000 ng/mL<br>0.1-100 ng/mL<br>0.2-20 ng/mL | LC/MS/MS        | 0.3 mL         | Sodium Heparin          | -20              | Madison         | Active         | P919.02          |

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## LIST OF VALIDATED METHODS JANUARY 2012

| Compound (Metabolite)            | Matrix          | Calibration Range                | Method   | Sample Volume | Anti-Coagulant      | Storage Temp ° C | Lab Site | Method Status* | Method I.D. |
|----------------------------------|-----------------|----------------------------------|----------|---------------|---------------------|------------------|----------|----------------|-------------|
| Herceptin <i>aka Trastuzumab</i> | Human Serum     | 10-200 µg/mL                     | ELISA    | 0.2 mL        | None                | -70              | Richmond | Active         | ICD178      |
|                                  | Human Plasma    | 10-100 µg/mL                     | ELISA    | 0.1 mL        | EDTA                | -20              | Richmond | Active         | ICD178.1    |
| Hydrochlorothiazide              | Human Plasma    | 2-200 ng/mL                      | LC/MS/MS | 0.25 mL       | Sodium Heparin      | -20              | Richmond | Active         | LCMSD205.5  |
|                                  | Human Urine     | 0.1-25 µg/mL                     | LC/MS/MS | 0.05 mL       | None                | -20              | Richmond | Active         | LCMSB205.3  |
| Hydrocodone (Hydromorphone)      | Human Plasma    | 0.1-100 ng/mL<br>0.05-50 ng/mL   | LC/MS/MS | 0.1 mL        | K <sub>2</sub> EDTA | -20              | Richmond | Active         | LCMSC492    |
|                                  | Rat Plasma      | 0.2-200 ng/mL<br>0.1-100 ng/mL   | LC/MS/MS | 0.05 mL       | K <sub>2</sub> EDTA | -70              | Richmond | Active         | LCMSC492.1  |
|                                  | Dog Plasma      | 10-1,000 ng/mL<br>2-200 ng/mL    | LC/MS/MS | 0.05 mL       | K <sub>2</sub> EDTA | -70              | Richmond | Active         | LCMSC492.2  |
|                                  | Rabbit Plasma   | 0.2-200 ng/mL<br>0.1-100 ng/mL   | LC/MS/MS | 0.05 mL       | K <sub>2</sub> EDTA | -70              | Richmond | Active         | LCMSC492.3  |
|                                  | Human Dialysate | 0.02-20 ng/mL<br>0.01-10 ng/mL   | LC/MS/MS | 0.3 mL        | None                | -20              | Richmond | Active         | LCMSD492.5  |
|                                  | Human Urine     | 10-10,000 ng/mL<br>5-5,000 ng/mL | LC/MS/MS | 0.25 mL       | None                | -20              | Richmond | Active         | LCMSC492.4  |
|                                  | Human Plasma    | 0.1-100 ng/mL<br>0.05-50 ng/mL   | LC/MS/MS | 0.5 mL        | K <sub>3</sub> EDTA | -20              | Madison  | Inactive       | P623.00     |

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## LIST OF VALIDATED METHODS JANUARY 2012

| Compound (Metabolite)                          | Matrix         | Calibration Range                                  | Method   | Sample Volume | Anti-Coagulant      | Storage Temp ° C | Lab Site | Method Status* | Method I.D. |
|--|----------------|--|----------|---------------|---------------------|------------------|----------|----------------|-------------|
|  | Hamster Plasma | 1-400 ng/mL<br>1-400 ng/mL                         | LC/MS/MS | 0.05 mL       | Sodium Heparin      | -20              | Madison  | Inactive       | P659.00     |
| Hydrocodone & Ibuprofen                        | Human Plasma   | 0.25-50 ng/mL<br>0.25-50 ug/mL                     | LC/MS/MS | 0.2 mL        | K <sub>3</sub> EDTA | -20              | Madison  | Active         | P774.01     |
| Hydrocodone & Acetaminophen & Chlorpheniramine | Human Plasma   | 0.1-50 ng/mL<br>100-50,000 ng/mL<br>0.25-125 ng/mL | LC/MS/MS | 0.3 mL        | K <sub>2</sub> EDTA | -20              | Madison  | Active         | P1066       |
| Ibuprofen                                      | Human Plasma   | 0.2-50 µg/mL                                       | LC/MS/MS | 0.1 mL        | Sodium Heparin      | -20              | Richmond | Active         | LCMSB409    |
| Ibuprofen Enantiomers                          | Human Plasma   | 0.1-25 µg/mL<br>0.1-25 µg/mL                       | LC/MS/MS | 0.1 mL        | Sodium Heparin      | -20              | Richmond | Active         | LCMSB561    |
| IFN Gamma                                      | Human Serum    | 31.3-1,000 pg/mL                                   | ELISA    | 0.2 mL        | None                | -70              | Richmond | Active         | ICD278      |
| IL-1β  | Human Serum    | 7.82-250 pg/mL                                     | ELISA    | 0.4 mL        | None                | -20              | Richmond | Active         | ICD151      |
| IL-2   | Human Serum    | 62.5-2,000 pg/mL                                   | ELISA    | 0.2 mL        | None                | -20              | Richmond | Active         | ICD150      |
| IL-4   | Human Serum    | 31.3-2,000 pg/mL                                   | ELISA    | 0.1 mL        | None                | -70              | Richmond | Active         | ICD277      |
| IL-6   | Human Serum    | 5-320 pg/mL  | ELISA    | 0.2 mL        | None                | -20              | Richmond | Active         | ICD141      |
| IL-10  | Human Serum    | 10- 500 pg/mL                                      | ELISA    | 0.3 mL        | None                | -20              | Richmond | Active         | ICD142      |
| Imatinib                                       | Human Plasma   | 10-10,000 ng/mL                                    | LC/MS/MS | 0.05 mL       | K <sub>2</sub> EDTA | -20              | Madison  | Active         | P1010       |
| Irbesartan                                     | Human Plasma   | 2.5-2,500 ng/mL                                    | LC/MS/MS | 0.1 mL        | K <sub>3</sub> EDTA | -20              | Richmond | Active         | LCMSB232    |
| Isopropamide                                   | Human Plasma   | 0.05-10 ng/mL                                      | LC/MS/MS | 0.5 mL        | Sodium Heparin      | -20              | Madison  | Inactive       | P409.01     |

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## LIST OF VALIDATED METHODS JANUARY 2012

| Compound (Metabolite)  | Matrix        | Calibration Range                | Method   | Sample Volume | Anti-Coagulant      | Storage Temp ° C | Lab Site | Method Status* | Method I.D. |
|--|---------------|----------------------------------|----------|---------------|---------------------|------------------|----------|----------------|-------------|
| Itraconazole<br>(2-Hydroxyitraconazole)                      | Human Plasma  | 0.5-500 ng/mL<br>0.5-500 ng/mL   | LC/MS/MS | 0.2 mL        | K <sub>2</sub> EDTA | -20              | Madison  | Active         | P1079       |
| Ivermectin B1a   | Equine Plasma | 0.5-50 ng/mL                     | HPLC/FL  | 0.5 mL        | Sodium Heparin      | -20              | Madison  | Inactive       | P575.01     |
|  | Equine Serum  | 0.50-50 ng/mL<br>0.84-1.68 ng/mL | HPLC/FL  | 2.0 mL        | None                | -20              | Madison  | Inactive       | P389.00     |
|  | Swine Plasma  | 0.50-100 ng/mL                   | HPLC/FL  | 0.5 mL        | Sodium Heparin      | -20              | Madison  | Inactive       | P646.00     |
| Ivermectin B1a   | Bovine Plasma | 0.50-100 ng/mL                   | HPLC/FL  | 0.5 mL        | Sodium Heparin      | -20              | Madison  | Inactive       | P479.01     |
|  | Dog Plasma    | 0.50-50 ng/mL                    | HPLC/FL  | 0.5 mL        | Sodium Heparin      | -20              | Madison  | Active         | P457.02     |
|  | Dog Plasma    | 0.10-10 ng/mL                    | HPLC/FL  | 0.5 mL        | Sodium Heparin      | -20              | Madison  | Active         | P715.01     |
| Ivermectin B1b   | Equine Plasma | 0.10-10 ng/mL                    | HPLC/FL  | 0.5 mL        | Sodium Heparin      | -20              | Madison  | Inactive       | P621.00     |
| Ketamine<br>(Norketamine)                                    | Human Serum   | 5-5,000 ng/mL<br>2.5-2,500 ng/mL | LC/MS/MS | 0.2 mL        | None                | -20              | Madison  | Inactive       | P627.00     |
|  | Rabbit Plasma | 10-10,000 ng/mL<br>5-5,000 ng/mL | LC/MS/MS | 0.1 mL        | Sodium Heparin      | -20              | Madison  | Inactive       | P648.00     |
|  | Human Plasma  | 0.5-500 ng/mL<br>0.5-500 ng/mL   | LC/MS/MS | 0.2 mL        | Sodium Heparin      | -20              | Madison  | Active         | P663.02     |
| S-Ketamine and R-Ketamine<br>S-Norketamine and R-Norketamine | Feline Plasma | 20-8,000 ng/mL<br>10-4,000 ng/mL | LC/MS/MS | 50 uL         | Sodium Heparin      | -20              | Madison  | Inactive       | P703.01     |
| Ketoconazole   | Human Plasma  | 0.1-20 µg/mL                     | LC/MS/MS | 0.1 mL        | Sodium Heparin      | -20              | Richmond | Active         | LCMSB202    |

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## LIST OF VALIDATED METHODS JANUARY 2012

| Compound (Metabolite)   | Matrix          | Calibration Range               | Method   | Sample Volume | Anti-Coagulant      | Storage Temp ° C | Lab Site | Method Status* | Method I.D. |
|---|-----------------|---------------------------------|----------|---------------|---------------------|------------------|----------|----------------|-------------|
| Ketoprofen  | Human Plasma    | 1-500 ng/mL                     | LC/MS/MS | 0.1 mL        | Sodium Heparin      | -20              | Richmond | Active         | LCMSB162    |
|   | Human Plasma    | 0.1-50 ng/mL                    | LC/MS/MS | 0.4 mL        | Sodium Heparin      | -20              | Madison  | Active         | P747.02     |
|   | Mini Pig Plasma | 0.1-50 ng/mL                    | LC/MS/MS | 0.1 mL        | Sodium Heparin      | -20              | Madison  | Active         | P821.00     |
| Ketoprofen, and Total**   | Human Plasma    | 1.0-1,000 ng/mL                 | LC/MS/MS | 0.05 mL       | Sodium Heparin      | -20              | Madison  | Active         | P767.00     |
|   | Human Urine     | 5-5,000 ng/mL                   | LC/MS/MS | 0.025 mL      | None                | -20              | Madison  | Active         | P768.01     |
| Ketoprofen Enantiomers  | Human Plasma    | 0.5– 250 ng/mL<br>0.5-250 ng/mL | LC/MS/MS | 0.2 mL        | Sodium Heparin      | -20              | Madison  | Active         | P782.00     |
| Ketorolac   | Human Plasma    | 0.025-25 µg/mL                  | HPLC/UV  | 0.25 mL       | Sodium Heparin      | -20              | Richmond | Inactive       | LC207       |
| Lamivudine (3TC)  | Human Plasma    | 10-4000 ng/mL                   | HPLC/UV  | 0.5 mL        | EDTA                | -20              | Madison  | Active         | P560.00     |
|   | Human Plasma    | 10-5,000 ng/mL                  | HPLC/UV  | 0.5 mL        | Sodium Heparin      | -20              | Richmond | Inactive       | LC269       |
| Lamotrigine<br>See Cocktail Assay "Epilepsy"                                  | Human Plasma    | 0.1-20 µg/mL                    | LC/MS/MS | 0.1 mL        | Sodium Heparin      | -70              | Madison  | Active         | P837.00     |
| Lansoprazole  | Human Plasma    | 2-2,000 ng/mL                   | LC/MS/MS | 0.05mL        | K <sub>3</sub> EDTA | -20              | Richmond | Active         | LCMS178     |
|   | Human Plasma    | 2-2,000 ng/mL                   | LC/MS/MS | 0.05mL        | K <sub>3</sub> EDTA | -20              | Madison  | Active         | P896.02     |
| Leucovorin Diasteromers<br>(6S-5-Methyltetrahydrofolic<br>Acid Diastereomers) | Human Serum     | 0.5-250 µg/mL<br>0.1-50 µg/mL   | LC/MS/MS | 0.05 mL       | None                | -70              | Richmond | Inactive       | LCMSC387    |
| Leuprolide  | Human Plasma    | 0.025-25 ng/mL                  | LC/MS/MS | 0.5 mL        | K <sub>3</sub> EDTA | -20              | Richmond | Active         | LCMSC245    |
| Levetiracetam   | Human Plasma    | 0.05-50 µg/mL                   | LC/MS/MS | 0.1 mL        | K <sub>3</sub> EDTA | -20              | Madison  | Active         | P811.03     |

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## LIST OF VALIDATED METHODS JANUARY 2012

| Compound (Metabolite)                    | Matrix                      | Calibration Range                                  | Method   | Sample Volume | Anti-Coagulant      | Storage Temp ° C | Lab Site | Method Status* | Method I.D. |
|--|-----------------------------|--|----------|---------------|---------------------|------------------|----------|----------------|-------------|
| Levodopa & Carbidopa                     | Human Plasma                | 5-2,500 ng/mL<br>0.5-250 ng/mL                     | LC/MS/MS | 0.2 mL        | K <sub>3</sub> EDTA | -70              | Madison  | Active         | P838.00     |
| Levodopa & Carbidopa<br>(3-O-MethylDopa) | Human Plasma                | 10-5,000 ng/mL<br>0.5-250 ng/mL<br>25-25,000 ng/mL | LC/MS/MS | 0.2 mL        | K <sub>3</sub> EDTA | -70              | Madison  | Active         | P959.00     |
| Levofloxacin                             | Human Serum                 | 25-15,000 ng/mL                                    | HPLC/UV  | 0.5 mL        | None                | -20              | Richmond | Inactive       | LC287       |
| Levofloxacin                             | African Green Monkey Plasma | 0.03-15 µg/mL                                      | HPLC/UV  | 0.05 mL       | K <sub>2</sub> EDTA | -20              | Richmond | Inactive       | LC287.1     |
| Lidocaine                                | Human Plasma                | 2-500 ng/mL  | HPLC/UV  | 0.25 mL       | Sodium Heparin      | -20              | Madison  | Active         | P654.00     |
|  | Pig Plasma                  | 2-500 ng/mL  | HPLC/UV  | 0.25 mL       | Sodium Heparin      | -20              | Madison  | Inactive       | P634.00     |
|  | Rat Plasma                  | 1-1,000 ng/mL                                      | LC/MS/MS | 0.05 mL       | Sodium Heparin      | -20              | Madison  | Inactive       | P667.00     |
|  | Human Plasma                | 0.2-200 ng/mL                                      | LC/MS/MS | 0.05 mL       | K <sub>3</sub> EDTA | -20              | Madison  | Active         | P871.00     |
| Lisdexamfetamine (d-amphetamine)         | Human Plasma                | 0.1-100 ng/mL<br>0.2-200 ng/mL                     | LC/MS/MS | 0.4 mL        | K <sub>2</sub> EDTA | -20              | Madison  | Active         | P1051.00    |
| Lisinopril                               | Human Plasma                | 0.5-400 ng/mL                                      | LC/MS/MS | 0.3 mL        | Sodium Heparin      | -20              | Madison  | Active         | P698.01     |
|  | Human Urine                 | 25-25,000 ng/mL                                    | LC/MS/MS | 0.025 mL      | None                | -20              | Madison  | Inactive       | P694.00     |
|  | Rat Plasma                  | 1.0-1,000 ng/mL                                    | LC/MS/MS | 0.1 mL        | Sodium Heparin      | -20              | Madison  | Inactive       | P673.00     |
| Loperamide                               | Human Plasma                | 10-10,000 pg/mL                                    | LC/MS/MS | 0.5 mL        | Sodium Heparin      | -20              | Madison  | Active         | P557.02     |
|  | Human Plasma                | 10-10,000 pg/mL                                    | LC/MS/MS | 0.1 mL        | Sodium Heparin      | -20              | Richmond | Inactive       | LCMSC310    |

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## LIST OF VALIDATED METHODS JANUARY 2012

| Compound (Metabolite)  | Matrix              | Calibration Range                                  | Method          | Sample Volume  | Anti-Coagulant           | Storage Temp ° C | Lab Site       | Method Status* | Method I.D.     |
|--|---------------------|--|-----------------|----------------|--------------------------|------------------|----------------|----------------|-----------------|
| Lopinavir<br>See Cocktail Assay "Antiviral"                                | Human Plasma        | 10-10,000 ng/mL                                    | LC/MS/MS        | 0.1 mL         | K <sub>3</sub> EDTA      | -20              | Madison        | Active         | P1002.01        |
| Loratadine<br>(Descarboethoxyloratadine)<br>(3-OHDescarboethoxyloratadine) | Human Plasma        | 0.025-10 ng/ml<br>0.025-10 ng/ml<br>0.025-10 ng/ml | LC/MS/MS        | 0.25 mL        | Sodium Heparin           | -20              | Richmond       | Active         | LCMS188.1       |
| Lorazepam  | Human Plasma        | 0.5-50 ng/mL                                       | LC/MS/MS        | 0.1 mL         | Sodium Heparin           | -20              | Richmond       | Active         | LCMS142         |
| Lorazepam, Total**   | Human Plasma        | 2.5-500 ng/mL                                      | LC/MS/MS        | 0.05 mL        | Sodium Heparin           | -20              | Richmond       | Active         | LCMSB294        |
| Losartan<br>(Acid Metabolite)  | Human Plasma        | 0.5-500 ng/mL<br>0.5-500 ng/mL                     | LC/MS/MS        | 0.15 mL        | Sodium Heparin           | -20              | Richmond       | Active         | LCMSC208        |
|  | Human Urine         | 5-2,000 ng/mL<br>2-2,000 ng/mL                     | LC/MS/MS        | 0.1 mL         | None                     | -20              | Richmond       | Inactive       | LCMSC208.1      |
|  | Human Plasma        | 0.05-12.5 ng/mL<br>0.1-25 ng/mL                    | LC/MS/MS        | 0.25 mL        | Sodium Heparin           | -70              | Richmond       | Inactive       | LCMS267         |
| <b>Lovastatin<br/>(Lovastatin Acid)</b>                                    | <b>Human Plasma</b> | <b>0.05-50 ng/mL<br/>0.05-50 ng/mL</b>             | <b>LC/MS/MS</b> | <b>0.25 mL</b> | <b>K<sub>2</sub>EDTA</b> | <b>-70</b>       | <b>Madison</b> | <b>Active</b>  | <b>P1028.01</b> |
| Meclozine  | Human Plasma        | 25-10,000 ng/mL                                    | HPLC/UV         | 0.2 mL         | K <sub>2</sub> EDTA      | -20              | Richmond       | Inactive       | LC337           |
| Medroxyprogesterone Acetate  | Human Plasma        | 0.01-10 ng/mL                                      | LC/MS/MS        | 0.5 mL         | Sodium Heparin           | -20              | Richmond       | Inactive       | LCMS99          |
|  | Human Serum         | 0.02-5 ng/mL                                       | LC/MS/MS        | 0.25 mL        | None                     | -20              | Richmond       | Active         | LCMSC198        |
| Memantine  | Human Plasma        | 0.5-50 ng/mL                                       | LC/MS/MS        | 0.05 mL        | Sodium Heparin           | -20              | Madison        | Active         | P786.01         |
|  | Human Plasma        | 0.5-50 ng/mL                                       | LC/MS/MS        | 0.05 mL        | K <sub>2</sub> EDTA      | -20              | Madison        | Active         | P786.01         |

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| Compound (Metabolite)                | Matrix       | Calibration Range              | Method   | Sample Volume | Anti-Coagulant      | Storage Temp ° C | Lab Site | Method Status* | Method I.D. |
|--------------------------------------|--------------|--------------------------------|----------|---------------|---------------------|------------------|----------|----------------|-------------|
| Metformin                            | Human Plasma | 2-1,000 ng/mL                  | LC/MS/MS | 0.1 mL        | Sodium Heparin      | -20              | Richmond | Active         | LCMS153     |
|                                      | Human Plasma | 2-2,000 ng/mL                  | LC/MS/MS | 0.05 mL       | K <sub>2</sub> EDTA | -20              | Richmond | Active         | LCMS153.5   |
|                                      | Human Urine  | 10-10,000 µg/mL                | HPLC/UV  | 0.05 mL       | None                | -20              | Richmond | Active         | LC251.1     |
|                                      | Dog Plasma   | 1-1,000 ng/mL                  | LC/MS/MS | 0.1 mL        | K <sub>3</sub> EDTA | -20              | Richmond | Inactive       | LCMSB153.4  |
| Methadone                            | Human Plasma | 0.1-50 ng/mL                   | LC/MS/MS | 0.2 mL        | K <sub>3</sub> EDTA | -20              | Richmond | Active         | LCMS323     |
|                                      | Human Urine  | 25-1,000 ng/mL                 | HPLC/UV  | 1.0 mL        | None                | -20              | Richmond | Inactive       | LC238.2     |
| Methadone Enantiomers                | Human Plasma | 5-1,000 ng/mL<br>5-1,000 ng/mL | LC/MS/MS | 0.05 mL       | K <sub>3</sub> EDTA | -20              | Richmond | Active         | LCMSC323.1  |
| Methotrexate (7-Hydroxymethotrexate) | Human Plasma | 5-500 ng/mL<br>5-500 ng/mL     | HPLC/UV  | 1.0 mL        | Sodium Heparin      | -20              | Madison  | Inactive       | P461.02     |
|                                      | Human Urine  | 0.1-10 ug/mL<br>0.1-10 ug/mL   | HPLC/UV  | 0.05 mL       | None                | -20              | Madison  | Active         | P683.02     |
|                                      | Human Plasma | 1.0-1,000 ng/mL                | LC/MS/MS | 0.05 mL       | Sodium Heparin      | -20              | Richmond | Active         | LCMSC380.1  |
|                                      | Human Urine  | 0.05-25 ug/mL                  | LC/MS/MS | 0.05 mL       | None                | -20              | Richmond | Active         | LCMSC380.2  |
|                                      | Human Plasma | 1.0-1,000 ng/mL                | LC/MS/MS | 0.05 mL       | Sodium Heparin      | -20              | Richmond | Active         | LCMS380     |
| Methylphenidate                      | Human Plasma | 0.25-25 ng/mL                  | LC/MS/MS | 0.10 mL       | Sodium Heparin      | -20              | Richmond | Inactive       | LCMSB187    |
|                                      | Human Plasma | 0.1-100 ng/mL                  | LC/MS/MS | 0.05 mL       | K <sub>3</sub> EDTA | -70              | Richmond | Active         | LCMS230.1   |

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## LIST OF VALIDATED METHODS JANUARY 2012

| Compound (Metabolite)  | Matrix        | Calibration Range  | Method   | Sample Volume | Anti-Coagulant                        | Storage Temp ° C | Lab Site | Method Status* | Method I.D. |
|--|---------------|--|----------|---------------|---------------------------------------|------------------|----------|----------------|-------------|
| Methylphenidate (Ritalinic Acid)                                     | Human Plasma  | 0.1-30 ng/mL   | LC/MS/MS | 0.1 mL        | Sodium Heparin Or K <sub>2</sub> EDTA | -20              | Madison  | Active         | P689.03     |
|  | Beagle Plasma | 0.10-100 ng/mL<br>2.0-2,000 ng/mL  | LC/MS/MS | 0.05 mL       | K <sub>3</sub> EDTA                   | -20              | Richmond | Active         | LCMS230     |
| Methylphenidate Enantiomers (Ritalinic Acid Enantiomers)             | Human Plasma  | 0.05-50 ng/mL (D)<br>0.01-10 ng/mL (L)<br>1.0-1,000 ng/ml (D)<br>1.0-1,000 ng/ml (L) | LC/MS/MS | 0.2 mL        | Sodium Heparin                        | -20              | Madison  | Active         | P779.00     |
| Methyltestosterone   | Human Plasma  | 5- 30,000 pg/mL  | LC/MS/MS | 0.5 mL        | K <sub>3</sub> EDTA                   | -20              | Richmond | Active         | LCMSC349    |
|  | Human Plasma  | 0.05-25 ng/mL  | LC/MS/MS | 0.5 mL        | K <sub>3</sub> EDTA                   | -20              | Richmond | Active         | LCMSC242    |
| Metoprolol   | Human Plasma  | 5-1,000 ng/mL  | LC/MS/MS | 0.05 mL       | Sodium Heparin                        | -20              | Madison  | Active         | P940.00     |
| Metronidazole (1-Hydroxymetronidazole)                               | Human Plasma  | 10-1,000 ng/mL<br>10-1,000 ng/mL   | HPLC/UV  | 0.5 mL        | Sodium Heparin                        | -20              | Madison  | Inactive       | P686.00     |
| Mevalonic Acid   | Human Plasma  | 0.5-20 ng/mL   | LC/MS/MS | 0.5 mL        | K <sub>3</sub> EDTA                   | -20              | Madison  | Active         | P758.02     |
|  | Human Urine   | 25-1,000 ng/mL   | LC/MS/MS | 0.25 mL       | None                                  | -20              | Madison  | Inactive       | P759.00     |
| Midazolam (1-Hydroxy midazolam)<br><br>(1-HydroxyMidazolam, Total**) | Human Plasma  | 0.1-100 ng/mL<br>0.1-100 ng/mL   | LC/MS/MS | 0.3 mL        | Sodium Heparin                        | -20              | Richmond | Active         | LCMS97      |
|  | Human Plasma  | 0.1-100 ng/mL<br>0.1-100 ng/mL   | LC/MS/MS | 0.2 mL        | Sodium Heparin                        | -20              | Madison  | Active         | P1024.00    |
|  | Human Urine   | 1-1,000 ng/mL  | LC/MS/MS | 0.2 mL        | None                                  | -20              | Richmond | Inactive       | LCMS228     |
|  | Human Urine   | 0.05-50 ng/mL<br>1-1,000 ng/mL   | LC/MS/MS | 0.2 mL        | None                                  | -20              | Madison  | Active         | P678.04     |

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## LIST OF VALIDATED METHODS JANUARY 2012

| Compound (Metabolite)   | Matrix                 | Calibration Range   | Method   | Sample Volume | Anti-Coagulant      | Storage Temp ° C | Lab Site | Method Status* | Method I.D. |
|---|------------------------|---|----------|---------------|---------------------|------------------|----------|----------------|-------------|
|   | Human Urine            | 0.05-50 ng/mL<br>2-2,000 ng/mL                              | LC/MS/MS | 0.2 mL        | None                | -20              | Madison  | Active         | P870.01     |
| Minocycline   | Human Plasma           | 0.02-10 µg/mL   | HPLC/UV  | 0.5 mL        | Sodium Heparin      | -20              | Richmond | Inactive       | LC63        |
| Minocycline   | Human Serum            | 0.02-10 µg/mL   | HPLC/UV  | 0.5 mL        | None                | -20              | Richmond | Inactive       | LC63.1      |
|   | Human Saliva           | 0.02-10 µg/mL   | HPLC/UV  | 0.5 mL        | None                | -20              | Richmond | Inactive       | LC63.5      |
|   | Human Crevicular Fluid | 10-2,000 ng/µL  | HPLC/UV  | 1.0 µL        | None                | -20              | Richmond | Inactive       | LC360       |
| Mirtazapine   | Human Plasma           | 0.05-100 ng/mL  | LC/MS/MS | 0.1 mL        | Sodium Heparin      | -20              | Richmond | Active         | LCMS145     |
| Mometasone Furoate  | Human Plasma           | 0.25-25 pg/mL   | LC/MS/MS | 1.0 mL        | K <sub>3</sub> EDTA | -20              | Richmond | Active         | LCMSD345.1  |
|   | Dog Plasma             | 10-1,000 pg/mL  | LC/MS/MS | 0.1 mL        | K <sub>2</sub> EDTA | -20              | Richmond | Active         | LCMSD345.4  |
|   | Rat Plasma             | 10-1,000 pg/mL  | LC/MS/MS | 0.1 mL        | K <sub>2</sub> EDTA | -20              | Richmond | Active         | LCMSD345.3  |
| Montelukast   | Human Plasma           | 5-1,000 ng/mL   | LC/MS/MS | 0.05 mL       | K <sub>2</sub> EDTA | -80              | Richmond | Active         | LCMSC385    |
| Morphine<br>(Morphine-3-β-glucuronide)<br>(Morphine-6-β-glucuronide)            | Human Plasma           | 0.5-50 ng/mL<br>10-1,000 ng/mL<br>2-200 ng/mL               | LC/MS/MS | 0.25 mL       | Sodium Heparin      | -20              | Richmond | Active         | LCMS 454    |
| Morphine<br>(Morphine-3-β-glucuronide)<br>(Morphine-6-β-glucuronide)<br>Codeine | Human Plasma           | 0.2-20 ng/mL<br>2-2,00 ng/mL<br>0.5-50 ng/mL<br>1-100 ng/mL | LC/MS/MS | 0.25 mL       | Sodium Heparin      | -20              | Richmond | Active         | LCMSC396    |

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## LIST OF VALIDATED METHODS JANUARY 2012

| Compound (Metabolite)   | Matrix       | Calibration Range                                 | Method   | Sample Volume | Anti-Coagulant      | Storage Temp ° C | Lab Site | Method Status* | Method I.D. |
|---|--------------|---|----------|---------------|---------------------|------------------|----------|----------------|-------------|
| Morphine & Codeine & Guafenesin   | Human Plasma | 0.2-20 ng/mL<br>0.1-100 ng/mL<br>2-2,000 ng/mL    | LC/MS/MS | 0.3 mL        | Sodium Heparin      | -20              | Madison  | Active         | P919.02     |
| Moxifloxacin  | Human Plasma | 25-5,000 ng/mL                                    | LC/MS/MS | 0.05 mL       | K <sub>3</sub> EDTA | -20              | Richmond | Active         | LCMSB276.2  |
| Naloxone & Buprenorphine (Norbuprenorphine)   | Human Plasma | 5-500 pg/mL<br>50-10,000 pg/mL<br>50-10,000 pg/mL | LC/MS/MS | 0.5 mL        | K <sub>3</sub> EDTA | -20              | Madison  | Active         | P942.01     |
| Naloxone, Total   | Human Plasma | 0.1-100 ng/mL                                     | LC/MS/MS | 0.2 mL        | K <sub>3</sub> EDTA | -20              | Madison  | Active         | P1096       |
| Naproxen  | Human Plasma | 0.1-100 µg/mL                                     | LC/MS/MS | 0.05 mL       | Sodium Heparin      | -20              | Richmond | Active         | LCMSB486    |
| Navelbine aka Vinorelbine   | Human Plasma | 2-500 ng/mL                                       | LC/MS/MS | 0.05 mL       | K <sub>2</sub> EDTA | -70              | Richmond | Active         | LCMS539     |
| Nevirapine  | Human Plasma | 25-10,000 ng/mL                                   | LC/MS/MS | 0.05 mL       | K <sub>3</sub> EDTA | -20              | Richmond | Active         | LCMS250     |
| Niacin <i>aka Vitamin B3, or nicotinic acid</i><br>(Nicotinuric acid) <i>aka NUA</i><br><br>(1-Methyl-Nicotinamide) <i>aka NMA</i><br>(N-Methyl-2-Pyridone-5-carboxamide)<br><i>aka 2PY</i> | Human Plasma | 5-2,000 ng/mL<br>5-2,000 ng/mL                    | LC/MS/MS | 0.25mL        | Sodium Heparin      | -70              | Richmond | Active         | LCMSB264    |
|   | Human Plasma | 2-2,000 ng/mL<br>2-2,000 ng/mL                    | LC/MS/MS | 0.25mL        | Sodium Heparin      | -70              | Richmond | Active         | LCMS264     |
|   | Human Urine  | 0.02 -20 µg/mL<br>0.2 - 200 µg/mL                 | LC/MS/MS | 0.1 mL        | None                | -20              | Richmond | Active         | LCMSB264.1  |
|   | Human Urine  | 0.5-250 µg/mL<br>2.5-250 µg/mL                    | LC/MS/MS | 0.05 mL       | None                | -20              | Richmond | Active         | LCMS274.1   |

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## LIST OF VALIDATED METHODS JANUARY 2012

| Compound (Metabolite)   | Matrix                       | Calibration Range              | Method   | Sample Volume | Anti-Coagulant                             | Storage Temp ° C | Lab Site | Method Status* | Method I.D. |
|---|------------------------------|--------------------------------|----------|---------------|--|------------------|----------|----------------|-------------|
| (1-Methyl-Nicotinamide) <i>aka NMA</i><br>(N-Methyl-2-Pyridone-5-carboxamide)<br><i>aka 2PY</i> | Human Plasma                 | 0.1-10 µg/mL<br>0.2- 20 µg/mL  | LC/MS/MS | 0.1 mL        | Sodium Heparin                             | -20              | Richmond | Active         | LCMSB274    |
| (1-Methyl-Nicotinamide) <i>aka NMA</i><br>(N-Methyl-2-Pyridone-5-carboxamide)<br><i>aka 2PY</i> | Human Plasma                 | 0.1-10 µg/mL<br>0.2- 20 µg/mL  | LC/MS/MS | 0.1 mL        | K <sub>2</sub> EDTA                        | -20              | Richmond | Active         | LCMSB274.2  |
| Nicotine<br>(Cotinine)  | Human Plasma                 | 0.5-100 ng/mL<br>2.5-500 ng/mL | LC/MS/MS | 0.5 mL        | Sodium Heparin                             | -20              | Madison  | Active         | P538.02     |
| Nilotinib   | Human Plasma                 | 2-2,000 ng/mL                  | LC/MS/MS | 0.05 mL       | K <sub>2</sub> EDTA                        | -20              | Madison  | Active         | P1011       |
| Nizatidine<br>(N-Desmethylnizatidine)   | Human Plasma                 | 5-5,000 ng/mL<br>5-5,000 ng/mL | HPLC/UV  | 1.0 mL        | Sodium Heparin                             | -20              | Richmond | Inactive       | LC264       |
| Norelgestromin<br><i>aka 17-desacetyl norgestimate</i>  | Human Plasma                 | 0.02-10 ng/mL                  | LC/MS/MS | 0.5 mL        | Potassium Oxalate/Sodium Fluoride          | -70              | Richmond | Active         | LCMSC372    |
| Norethindrone &<br>Ethinyl Estradiol  | Human Plasma                 | 50-25,000 pg/mL<br>2-500 pg/mL | LC/MS/MS | 0.5 mL        | Sodium Heparin                             | -20              | Richmond | Active         | LCMSC255    |
| Norgestrel &<br>Ethinyl Estradiol   | Human Plasma                 | 50-25,000 pg/mL<br>2-500 pg/mL | LC/MS/MS | 0.5 mL        | Potassium Oxalate/Sodium Fluoride          | -70              | Richmond | Active         | LCMSC256    |
| Octreotide  | Human Plasma                 | 0.025-25 ng/mL                 | LC/MS/MS | 0.2 mL        | K <sub>3</sub> EDTA<br>K <sub>2</sub> EDTA | -20              | Richmond | Active         | LCMSC296    |
|   | Monkey Plasma with Aprotinin | 5.0-250 ng/mL                  | LC/MS/MS | 0.2 mL        | K <sub>3</sub> EDTA                        | -70              | Richmond | Active         | LCMSC296.2  |
|   | Monkey Plasma with Aprotinin | 0.1-25 ng/mL                   | LC/MS/MS | 0.2 mL        | K <sub>3</sub> EDTA                        | -70              | Richmond | Active         | LCMSC296.1  |
|   | Rabbit Plasma                | 1-100 ng/mL                    | LC/MS/MS | 0.1 mL        | K <sub>3</sub> EDTA                        | -70              | Richmond | Active         | LCMSC296.3  |

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## LIST OF VALIDATED METHODS JANUARY 2012

| Compound (Metabolite)  | Matrix        | Calibration Range                               | Method   | Sample Volume | Anti-Coagulant      | Storage Temp ° C | Lab Site | Method Status* | Method I.D. |
|--|---------------|---|----------|---------------|---------------------|------------------|----------|----------------|-------------|
| Olanzapine<br>(Desmethylolanzapine)  | Human Plasma  | 0.025-25 ng/mL<br>0.025-25 ng/mL                | LC/MS/MS | 0.1 mL        | Sodium Heparin      | -20              | Richmond | Inactive       | LCMS84      |
| Omeprazole   | Human Plasma  | 1-1,000 ng/mL                                   | LC/MS/MS | 0.1 mL        | Sodium Heparin      | -20              | Richmond | Active         | LCMSB131    |
| Omeprazole   | Equine Plasma | 1-1,000 ng/mL                                   | LC/MS/MS | 0.05 mL       | Sodium Heparin      | -20              | Madison  | Active         | P1025.00    |
| Omeprazole<br>(5-Hydroxyomeprazole)<br>(Omeprazole sulphone)                             | Human Plasma  | 1-1,000 ng/mL<br>1-1,000 ng/mL<br>1-1,000 ng/mL | LC/MS/MS | 0.1 mL        | Sodium Heparin      | -20              | Madison  | Inactive       | P749.04     |
| Omeprazole<br>(5-Hydroxyomeprazole)  | Human Plasma  | 1-1,000 ng/mL<br>1-1,000 ng/mL                  | LC/MS/MS | 0.5 mL        | Sodium Heparin      | -20              | Madison  | Active         | P1009.00    |
| Ondansetron  | Human Plasma  | 0.5-250 ng/mL                                   | LC/MS/MS | 0.1 mL        | K <sub>3</sub> EDTA | -20              | Richmond | Active         | LCMSB165    |
|  | Dog Plasma    | 0.5-250 ng/mL                                   | LC/MS/MS | 0.1 mL        | K <sub>3</sub> EDTA | -20              | Richmond | Active         | LCMS165.1   |
| Oxaprozin  | Human Plasma  | 0.5-500 µg/mL                                   | HPLC/UV  | 0.1 mL        | Sodium Heparin      | -20              | Richmond | Inactive       | LC243       |
| Oxcarbazepine<br>(10-Hydroxycarbamazepine (MHD))<br>(10,11-Dihydroxycarbamazepine (DHD)) | Human Plasma  | 0.1-5 µg/mL<br>0.1-5 µg/mL<br>0.5-25 µg/mL      | HPLC/UV  | 0.3 mL        | Sodium Heparin      | -70              | Madison  | Inactive       | P743.00     |
| Oxcarbazepine  | Human Plasma  | 0.1-5 µg/mL                                     | LC/MS/MS | 0.1 mL        | Sodium Heparin      | -70              | Madison  | Active         | P850.00     |
| (Monohydroxyoxcarbazepine <i>aka MHD</i> )   | Human Plasma  | 1-50 ng/mL                                      | LC/MS/MS | 0.05 mL       | Sodium Heparin      | -70              | Madison  | Active         | P886.00     |

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## LIST OF VALIDATED METHODS JANUARY 2012

| Compound (Metabolite)  | Matrix              | Calibration Range                                 | Method          | Sample Volume  | Anti-Coagulant                        | Storage Temp ° C | Lab Site       | Method Status* | Method I.D.     |
|--|---------------------|---|-----------------|----------------|---------------------------------------|------------------|----------------|----------------|-----------------|
| Oxybutynin Enantiomers<br>(Desethyloxybutynin enantiomers)             | Human Plasma        | 0.5-200 ng/mL<br>0.5-200 ng/mL                    | LC/MS/MS        | 0.2 mL         | K <sub>2</sub> EDTA                   | -70              | Richmond       | Active         | LCMS 411        |
| Oxycodone  | Human Plasma        | 0.1-100 ng/mL                                     | LC/MS/MS        | 0.5 mL         | K <sub>3</sub> EDTA                   | -20              | Madison        | Active         | P649.01         |
| Oxycodone & Acetaminophen  | Human Plasma        | 0.1-100 ng/mL<br>0.1-50 µg/mL                     | LC/MS/MS        | 0.1 mL         | K <sub>2</sub> EDTA                   | -20              | Madison        | Active         | P1036.00        |
| Oxymorphone  | Human Plasma        | 10-1,000 pg/mL                                    | LC/MS/MS        | 0.5 mL         | K <sub>3</sub> EDTA                   | -20              | Madison        | Active         | P820.01         |
| Oxymorphone<br>(6-OH-oxymorphone)                                      | Human Plasma        | 0.1-10 ng/mL<br>0.1-10 ng/mL                      | LC/MS/MS        | 0.25 mL        | K <sub>2</sub> EDTA                   | -20              | Madison        | Active         | P930            |
| Paclitaxel (Taxol ®)   | Human Plasma        | 0.1-100 ng/mL                                     | LC/MS/MS        | 0.1 mL         | K <sub>3</sub> EDTA                   | -20              | Richmond       | Active         | LCMSC163.2      |
|  | Human Plasma        | 10-5000 ng/mL                                     | LC/MS/MS        | 0.25 mL        | Sodium Heparin                        | -70              | Richmond       | Active         | LCMSC163.4      |
| Paroxetine   | Human Plasma        | 0.25-50 ng/mL                                     | LC/MS/MS        | 0.2 mL         | Sodium Heparin                        | -20              | Richmond       | Active         | LCMS161         |
|  | Human Plasma        | 0.25-50 ng/mL                                     | LC/MS/MS        | 0.2 mL         | Sodium Heparin<br>K <sub>3</sub> EDTA | -20              | Madison        | Active         | P776.01         |
| <b>Pazopanib</b>   | <b>Human Plasma</b> | <b>1.0-500 ng/mL</b>                              | <b>LC/MS/MS</b> | <b>0.05 mL</b> | <b>K<sub>2</sub>EDTA</b>              | <b>-20</b>       | <b>Madison</b> | <b>Active</b>  | <b>P1101.00</b> |
| Pemoline   | Human Plasma        | 25-5,000 ng/mL                                    | HPLC/UV         | 0.2 mL         | Sodium Heparin                        | -20              | Richmond       | Inactive       | LC258           |
| Pentoxifylline<br>(Hydroxypentifylline)<br>(Carboxypropylpentifylline) | Human Plasma        | 5-1,000 ng/mL<br>10-2,000 ng/mL<br>10-2,000 ng/mL | HPLC/UV         | 0.5 mL         | Sodium Heparin                        | -20              | Madison        | Inactive       | P348.01         |
| Phenethylamine   | Human Urine         | 1.13-501 ng/mL                                    | LC/MS/MS        | 0.2 mL         | None                                  | -20              | Madison        | Inactive       | P655.00         |

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## LIST OF VALIDATED METHODS JANUARY 2012

| Compound (Metabolite)  | Matrix                        | Calibration Range              | Method   | Sample Volume       | Anti-Coagulant      | Storage Temp ° C | Lab Site | Method Status* | Method I.D. |
|--|-------------------------------|--------------------------------|----------|---------------------|---------------------|------------------|----------|----------------|-------------|
| Phenobarbital<br>See Cocktail Assay "Epilepsy"                               | Human Plasma                  | 0.1-50 µg/mL                   | LC/MS/MS | 0.1 mL              | Sodium Heparin      | -70              | Madison  | Active         | P837.00     |
| Phenylbutazone   | Equine Plasma                 | 0.1-40 µg/mL                   | HPLC/UV  | 0.25 mL             | Sodium Heparin      | -20              | Madison  | Inactive       | P554.04     |
| Phenylephrine, Total**   | Human Plasma                  | 5.0-1,000 ng/mL                | LC/MS/MS | 0.05 mL             | Sodium Heparin      | -70              | Madison  | Active         | P806.01     |
| Phenylephrine, Total**   | Human Plasma                  | 1.0-1,000 ng/mL                | LC/MS/MS | 0.05 mL             | Lithium Heparin     | -70              | Richmond | Active         | LCMS257     |
|  | Human Urine                   | 100-5,000 ng/mL                | LC/MS/MS | 0.05 mL             | None                | -70              | Madison  | Active         | P958.01     |
| Phenylephrine<br>(Phenylephrine Glucuronide)<br><br>(3-Hydroxymandelic acid) | Human Urine                   | 2.0-200 ng/mL<br>2.0-200 ng/mL | LC/MS/MS | 0.2 mL              | None                | -70              | Madison  | Active         | P956.00     |
|  | Human Urine                   | 100-5,000 ng/mL                | LC/MS/MS | 0.05 mL             | None                | -70              | Madison  | Active         | P957.00     |
| Phenylephrine  | Human Plasma                  | 10-2,500 pg/mL                 | LC/MS/MS | 0.25 mL             | Lithium Heparin     | -70              | Richmond | Active         | LCMSC392.1  |
|  | Human Plasma                  | 10-2,500 pg/mL                 | LC/MS/MS | 0.25 mL             | K <sub>3</sub> EDTA | -70              | Madison  | Active         | P898.01     |
| Phenylpropanolamine  | Human Plasma                  | 5-1,000 ng/mL                  | HPLC/UV  | 0.5 mL              | Sodium Heparin      | -20              | Richmond | Inactive       | LC181       |
|  | Human Plasma                  | 5-500 ng/mL                    | HPLC/UV  | 1.0 mL              | EDTA                | -20              | Madison  | Inactive       | P002.05     |
| Phenytoin  | Human Plasma                  | 20-5,000 ng/mL                 | LC/MS/MS | 0.25 mL             | K <sub>2</sub> EDTA | -20              | Richmond | Active         | LCMSB418    |
| Phenytoin<br>Phenytoin, Total **   | Human Plasma                  | 0.05-15 ug/mL<br>0.1- 30 ug/mL | LC/MS/MS | 0.05 mL<br>0.025 mL | K <sub>2</sub> EDTA | -20              | Madison  | Inactive       | P639.00     |
| Phenytoin, Free (unbound)<br>(5-Hydroxyphenytoin)                            | Human Plasma<br>Ultrafiltrate | 0.05-15 µg/mL<br>0.05-15 µg/mL | LC/MS/MS | 0.05 mL             | Sodium Heparin      | -20              | Madison  | Active         | P742.03     |

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## LIST OF VALIDATED METHODS JANUARY 2012

| Compound (Metabolite)                      | Matrix                        | Calibration Range                  | Method      | Sample Volume | Anti-Coagulant      | Storage Temp ° C | Lab Site | Method Status*  | Method I.D. |
|--|-------------------------------|------------------------------------|-------------|---------------|---------------------|------------------|----------|-----------------|-------------|
| Phenytoin, Total**<br>(5-Hydroxyphenytoin) | Human Plasma                  | 0.05-15 µg/mL<br>0.1- 30 µg/mL     | LC/MS/MS    | 0.025 mL      | Sodium Heparin      | -20              | Madison  | Active          | P742.03     |
|  | Human Plasma                  | 0.1-20 µg/mL                       | HPLC/UV     | 1.0 mL        | Sodium Heparin      | -20              | Madison  | <b>Inactive</b> | P281.00     |
| Phenytoin<br>(5-Hydroxyphenytoin)          | Human Urine                   | 0.1-40 µg/mL<br>0.1-40 µg/mL       | HPLC/UV     | 0.5 mL        | None                | -20              | Madison  | Active          | P642.01     |
|  | (5-Hydroxyphenytoin), Total** | Human Urine                        | 1-200 µg/mL | HPLC/UV       | 0.05 mL             | None             | -20      | Madison         | Active      |
| Pioglitazone                               | Human Plasma                  | 25-2,500 ng/mL                     | LC/MS/MS    | 0.05 mL       | K <sub>2</sub> EDTA | -20              | Madison  | Active          | P1085       |
| Pravastatin                                | Human Plasma                  | 0.5-250 ng/mL                      | LC/MS/MS    | 0.25 mL       | Sodium Heparin      | -20              | Richmond | Active          | LCMS47      |
| Praziquantel                               | Dog Plasma                    | 10-4,000 ng/mL                     | LC/MS/MS    | 0.05 mL       | Sodium Heparin      | -20              | Madison  | Active          | P989.00     |
|  | Dog Plasma                    | 2-2,000 ng/mL                      | LC/MS/MS    | 0.05 mL       | Sodium Heparin      | -20              | Madison  | Active          | P1065.00    |
|  | Feline Plasma                 | 10-4,000 ng/mL                     | LC/MS/MS    | 0.05 mL       | Sodium Heparin      | -20              | Madison  | Active          | P831.01     |
| Prednisone<br>(Prednisolone)               | Human Plasma                  | 0.5-1,000 ng/mL<br>0.5-1,000 ng/mL | LC/MS/MS    | 0.3 mL        | K <sub>2</sub> EDTA | -20              | Madison  | Active          | P955.00     |
|  | Rat Plasma                    | 0.25-250 ng/mL<br>0.25-250 ng/mL   | LC/MS/MS    | 0.05 mL       | K <sub>2</sub> EDTA | -70              | Madison  | Active          | P984.00     |
| Pregabalin                                 | Human Plasma                  | 20-20,000 ng/mL                    | LC/MS/MS    | 0.5 mL        | K <sub>2</sub> EDTA | -20              | Richmond | Active          | LCMSC487    |
| Procainamide<br>(N-Acetylprocainamide)     | Human Plasma                  | 0.025-10 µg/mL<br>0.025-10 µg/mL   | HPLC/UV     | 0.25 mL       | Sodium Heparin      | -20              | Richmond | <b>Inactive</b> | LC306       |

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## LIST OF VALIDATED METHODS JANUARY 2012

| Compound (Metabolite)                         | Matrix                          | Calibration Range                  | Method   | Sample Volume | Anti-Coagulant      | Storage Temp ° C | Lab Site | Method Status* | Method I.D. |
|---|---------------------------------|------------------------------------|----------|---------------|---------------------|------------------|----------|----------------|-------------|
| Progesterone                                  | Human Plasma                    | 0.05-50 ng/mL                      | LC/MS/MS | 0.1 mL        | K <sub>2</sub> EDTA | -70              | Richmond | Active         | LCMSC431    |
|   | Rabbit Plasma                   | 0.5-50 ng/mL                       | LC/MS/MS | 0.05 mL       | K <sub>2</sub> EDTA | -70              | Richmond | Active         | LCMSC431.1  |
| Proguanil                                     | Human Plasma                    | 0.5-500 ng/mL                      | LC/MS/MS | 0.05 mL       | K <sub>2</sub> EDTA | -20              | Richmond | Active         | LCMS530     |
| Propranolol (4-Hydroxypropranolol)            | Human Plasma with Ascorbic Acid | 0.5-250 ng/mL<br>0.5-250 ng/mL     | LC/MS/MS | 0.1 mL        | Sodium Heparin      | -70              | Richmond | Active         | LCMSB191    |
|   | Human Urine with Ascorbic Acid  | 1-250 ng/mL<br>1-250 ng/mL         | LC/MS/MS | 0.25 mL       | None                | -70              | Richmond | Active         | LCMSB191.1  |
| Propranolol, Total** (4-Hydroxypropranolol)   | Human Plasma                    | 2-600 ng/mL<br>2-600 ng/mL         | LC/MS/MS | 0.25 mL       | Sodium Heparin      | -70              | Richmond | Active         | LCMSB281.2  |
| Pseudoephedrine                               | Human Plasma                    | 2.5-500 ng/mL                      | LC/MS/MS | 0.1 mL        | Sodium Heparin      | -20              | Richmond | Active         | LCMSB201    |
| Pseudoephedrine & Dextromethorphan            | Human Plasma                    | 0.8-400 ng/mL<br>10-5,000 pg/mL    | LC/MS/MS | 0.5 mL        | Sodium Heparin      | -20              | Madison  | Active         | P617.02     |
| Quetiapine                                    | Human Plasma                    | 1-1000 ng/mL                       | LC/MS/MS | 0.05 mL       | K <sub>2</sub> EDTA | -20              | Richmond | Active         | LCMSB430    |
| Quinidine                                     | Human Plasma                    | 25-5,000 ng/mL                     | HPLC/FL  | 0.5 mL        | Sodium Heparin      | -20              | Richmond | Inactive       | LC330.1     |
| Raltegravir<br>See Cocktail Assay "Antiviral" | Human Plasma                    | 10-10,000 ng/mL                    | LC/MS/MS | 0.1 mL        | K <sub>3</sub> EDTA | -20              | Madison  | Active         | P1002.00    |
| Raltegravir & Ritonavir                       | Human Plasma                    | 10-10,000 ng/mL<br>10-10,000 ng/mL | LC/MS/MS | 0.05 mL       | K <sub>2</sub> EDTA | -20              | Madison  | Active         | P1087       |

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## LIST OF VALIDATED METHODS JANUARY 2012

| Compound (Metabolite)                | Matrix       | Calibration Range              | Method   | Sample Volume | Anti-Coagulant      | Storage Temp ° C | Lab Site | Method Status* | Method I.D. |
|--------------------------------------|--------------|--------------------------------|----------|---------------|---------------------|------------------|----------|----------------|-------------|
| Ramipril (Ramiprilat)                | Human Plasma | 0.05-50 ng/mL<br>0.05-50 ng/mL | LC/MS/MS | 0.25 mL       | K <sub>3</sub> EDTA | -70              | Richmond | Active         | LCMS311     |
| Ranitidine                           | Human Plasma | 2.5-2,500 ng/mL                | LC/MS/MS | 0.05 mL       | K <sub>3</sub> EDTA | -20              | Madison  | Active         | P873.01     |
| Ranolazine                           | Human Plasma | 2-2,000 ng/mL                  | LC/MS/MS | 0.1 mL        | K <sub>2</sub> EDTA | -20              | Madison  | Active         | P934.01     |
| Ranolazine (RS-94827 Metabolite)     | Human Plasma | 2-2,000 ng/mL<br>2-2,000 ng/mL | LC/MS/MS | 0.25 mL       | K <sub>2</sub> EDTA | -20              | Madison  | Active         | P1015       |
| Repaglinide                          | Human Plasma | 0.2-200 ng/mL                  | LC/MS/MS | 0.1 mL        | K <sub>2</sub> EDTA | -20              | Richmond | Active         | LCMS460     |
| Ribavirin                            | Human Plasma | 5-5,000 ng/mL                  | LC/MS/MS | 0.05 mL       | K <sub>2</sub> EDTA | -20              | Richmond | Active         | LCMS510     |
| Rifabutin (25-O-Desacetylriofabutin) | Human Plasma | 2-800 ng/mL<br>2-800 ng/mL     | LC/MS/MS | 0.1 mL        | K <sub>3</sub> EDTA | -20              | Madison  | Active         | P587.06     |
| Rifampin                             | Human Plasma | 0.1-10 µg/mL                   | LC/MS/MS | 0.05 mL       | Sodium Heparin      | -20              | Madison  | Active         | P941.02     |
| Risperidone (9-Hydroxyrisperidone)   | Human Urine  | 1-300 ng/mL<br>1-300 ng/mL     | LC/MS/MS | 0.2 mL        | None                | -20              | Madison  | Active         | P1034.01    |
|                                      | Human Plasma | 0.1-60 ng/mL<br>0.1-60 ng/mL   | LC/MS/MS | 0.1 mL        | K <sub>2</sub> EDTA | -20              | Madison  | Active         | P1019.00    |
|                                      | Human Serum  | 0.1-30 ng/mL<br>0.1-30 ng/mL   | LC/MS/MS | 1.0 mL        | None                | -20              | Madison  | Inactive       | P361.00     |
| Ritonavir                            | Human Plasma | 10-10,000 ng/mL                | LC/MS/MS | 0.05 mL       | Sodium Heparin      | -70              | Richmond | Active         | LCMS210.2   |

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## LIST OF VALIDATED METHODS JANUARY 2012

| Compound (Metabolite)                       | Matrix                    | Calibration Range                  | Method          | Sample Volume  | Anti-Coagulant        | Storage Temp ° C | Lab Site       | Method Status* | Method I.D.     |
|---|---------------------------|------------------------------------|-----------------|----------------|-----------------------|------------------|----------------|----------------|-----------------|
| Ritonavir<br>See Cocktail Assay "Antiviral" | Human Plasma              | 10-10,000 ng/mL                    | LC/MS/MS        | 0.1 mL         | K <sub>3</sub> EDTA   | -20              | Madison        | Active         | P1002.00        |
| Ritonavir & Atazanavir                      | Human Plasma              | 10-10,000 ng/mL                    | LC/MS/MS        | 0.05 mL        | K <sub>3</sub> EDTA   | -20              | Madison        | Active         | P1012           |
| Ritonavir & Etravirine                      | Human Plasma              | 10-10,000 ng/mL<br>0.5-500 ng/ml   | LC/MS/MS        | 0.2 mL         | K <sub>2</sub> EDTA   | -20              | Madison        | Active         | P1031.00        |
| Ritonavir & Tipranavir                      | Human Plasma              | 10-10,000 ng/mL<br>10-10,000 ng/mL | LC/MS/MS        | 0.05 mL        | K <sub>2</sub> EDTA   | -20              | Madison        | Active         | P1020           |
| Ritonavir & Raltegravir                     | Human Plasma              | 10-10,000 ng/mL<br>10-10,000 ng/mL | LC/MS/MS        | 0.05 mL        | K <sub>2</sub> EDTA   | -20              | Madison        | Active         | P1087           |
| Rivaroxaban                                 | Human Plasma              | 0.5-500 ng/mL                      | LC/MS/MS        | 0.25 mL        | K <sub>2</sub> EDTA   | -20              | Madison        | Active         | P1014.01        |
|   | <b>Cyno Monkey Plasma</b> | <b>1.0-500 ng/mL</b>               | <b>LC/MS/MS</b> | <b>0.05 mL</b> | <b>Sodium Citrate</b> | <b>-20</b>       | <b>Madison</b> | <b>Active</b>  | <b>P1110.00</b> |
| Rizatriptan                                 | Human Plasma              | 0.2-200 ng/mL                      | LC/MS/MS        | 0.05 mL        | K <sub>3</sub> EDTA   | -20              | Madison        | Active         | P845.00         |
| Ropinirole                                  | Human Plasma              | 10-5,000 pg/mL                     | LC/MS/MS        | 0.2 mL         | Sodium Heparin        | -20              | Madison        | Active         | P736.01         |
|   | Minipig Plasma            | 10-5,000 pg/mL                     | LC/MS/MS        | 0.2 mL         | K <sub>3</sub> EDTA   | -20              | Madison        | Active         | P1080.01        |
| Ropinirole<br>N-Despropylropinirole         | Human Plasma              | 10-5,000 pg/mL<br>10-5,000 pg/mL   | LC/MS/MS        | 0.2 mL         | K <sub>2</sub> EDTA   | -20              | Madison        | Active         | P1088           |

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## LIST OF VALIDATED METHODS JANUARY 2012

| Compound (Metabolite)                    | Matrix       | Calibration Range              | Method   | Sample Volume | Anti-Coagulant                    | Storage Temp ° C | Lab Site | Method Status* | Method I.D. |
|--|--------------|--------------------------------|----------|---------------|-----------------------------------|------------------|----------|----------------|-------------|
| Rosiglitazone (N-Desmethylrosiglitazone) | Human Plasma | 1-500 ng/mL<br>1-500 ng/mL     | LC/MS/MS | 0.05 mL       | K <sub>3</sub> EDTA               | -20              | Richmond | Active         | LCMS322.1   |
| Rosiglitazone                            | Human Plasma | 2-1,000 ng/mL                  | LC/MS/MS | 0.05 mL       | K <sub>3</sub> EDTA               | -20              | Richmond | Active         | LCMS322     |
|  | Rat Plasma   | 2-1,000 ng/mL                  | LC/MS/MS | 0.05 mL       | K <sub>2</sub> EDTA               | -20              | Richmond | Active         | LCMS322.2   |
| Rosuvastatin (N-Desmethylrosuvastatin)   | Human Plasma | 0.1-100 ng/mL<br>0.05-50 ng/mL | LC/MS/MS | 0.25 mL       | K <sub>2</sub> EDTA               | -70              | Madison  | Active         | P922.03     |
|  | Human Plasma | 0.1-100 ng/mL<br>0.05-50 ng/mL | LC/MS/MS | 0.25 mL       | K <sub>3</sub> EDTA               | -70              | Richmond | Active         | LCMS393.3   |
| Rufinamide                               | Human Plasma | 10-10,000 ng/ml                | LC/MS/MS | 0.05 mL       | K <sub>2</sub> EDTA               | -20              | Madison  | Active         | P1136.00    |
| (Salicylic Acid)                         | Human Plasma | 1-50 µg/mL                     | HPLC/UV  | 0.2 mL        | Lithium Heparin                   | -20              | Madison  | Active         | P383.00     |
|  | Dog Plasma   | 1-50 µg/mL                     | HPLC/UV  | 0.2 mL        | Sodium Heparin                    | -70              | Richmond | Inactive       | LC261.1     |
| Acetylsalicylic Acid (Salicylic Acid)    | Human Plasma | 0.02-10 µg/mL<br>0.1-50 µg/mL  | LC/MS/MS | 0.05 mL       | Potassium Oxalate/Sodium Fluoride | -70              | Richmond | Active         | LCMSC425    |
| Salmeterol                               | Human Plasma | 1-100 pg/mL                    | LC/MS/MS | 1.0 mL        | Potassium Oxalate/Sodium Fluoride | -20              | Madison  | Active         | P798.00     |
| Salmeterol & Fluticasone Propionate      | Human Plasma | 1-200 pg/mL<br>1-200 pg/mL     | LC/MS/MS | 1.0 mL        | Potassium Oxalate/Sodium Fluoride | -20              | Madison  | Active         | P988        |
| Salmon Calcitonin                        | Human Plasma | 5-500 pg/mL                    | LC/MS/MS | 0.3 mL        | K <sub>2</sub> EDTA               | -70              | Richmond | Active         | LCMSD540.1  |

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## LIST OF VALIDATED METHODS JANUARY 2012

| Compound (Metabolite)   | Matrix       | Calibration Range   | Method   | Sample Volume | Anti-Coagulant                          | Storage Temp ° C | Lab Site | Method Status* | Method I.D. |
|---|--------------|---|----------|---------------|---|------------------|----------|----------------|-------------|
| Selegiline<br>(N-Desmethylselegiline)<br>(Amphetamine)<br>(Methamphetamine)<br>(Phenethylamine) | Human Plasma | 0.01-5 ng/mL<br>0.04-20 ng/mL<br>0.05-25 ng/mL<br>0.05-25 ng/mL<br>0.01-5 ng/mL | LC/MS/MS | 0.1 mL        | Sodium Heparin                          | -20              | Madison  | Active         | P985.00     |
| Sertraline  | Human Plasma | 0.2-80 ng/mL  | LC/MS/MS | 0.5 mL        | Sodium Heparin                          | -20              | Madison  | Inactive       | P570.01     |
| Sertraline<br>(Desmethylsertraline)   | Human Plasma | 0.5-200 ng/mL<br>0.5-200 ng/mL  | LC/MS/MS | 0.25 mL       | Sodium Heparin                          | -20              | Richmond | Active         | LCMS98.1    |
| Sildenafil<br>(Desmethylsildenafil)   | Human Plasma | 1-1,000 ng/mL<br>1-1,000 ng/mL  | LC/MS/MS | 0.25 mL       | Sodium Heparin<br>& K <sub>3</sub> EDTA | -70              | Richmond | Active         | LCMS231     |
| Simvastatin<br>(Simvastatin Acid)   | Human Plasma | 0.1-50 ng/mL<br>0.1-50 ng/mL  | LC/MS/MS | 0.1 mL        | Sodium Heparin                          | -70              | Madison  | Active         | P980.00     |
| Solifenacin   | Human Plasma | 0.1-25 ng/mL  | LC/MS/MS | 0.1 mL        | K <sub>3</sub> EDTA                     | -20              | Madison  | Active         | P950.00     |
| Sotalol   | Human Plasma | 10-2,000 ng/mL  | HPLC/FL  | 0.5 mL        | EDTA                                    | -20              | Madison  | Inactive       | P403.01     |
| Sparfloxacin  | Human Plasma | 0.025-20 µg/mL  | HPLC/UV  | 0.5 mL        | Sodium Heparin                          | -20              | Richmond | Inactive       | LC332       |
| Sufentanil  | Human Plasma | 1.0-250 pg/mL   | LC/MS/MS | 0.5 mL        | K <sub>2</sub> EDTA                     | -70              | Richmond | Active         | LCMSC239    |
|   | Human Urine  | 5.0-1,000 pg/mL   | LC/MS/MS | 0.25 mL       | None                                    | -70              | Richmond | Active         | LCMSC239.1  |
| Sumatriptan   | Human Plasma | 0.2-100 ng/mL   | LC/MS/MS | 0.25 mL       | K <sub>3</sub> EDTA                     | -20              | Richmond | Active         | LCMS174     |
|   | Pig Plasma   | 0.2-100 ng/mL   | LC/MS/MS | 0.25 mL       | K <sub>2</sub> EDTA                     | -20              | Richmond | Active         | LCMS174.3   |

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## LIST OF VALIDATED METHODS JANUARY 2012

| Compound (Metabolite)              | Matrix            | Calibration Range                | Method   | Sample Volume | Anti-Coagulant      | Storage Temp ° C | Lab Site | Method Status*  | Method I.D. |
|------------------------------------|-------------------|----------------------------------|----------|---------------|---------------------|------------------|----------|-----------------|-------------|
| Sunitinib<br>(N-Desethylsunitinib) | Human Plasma      | 0.1-50 ng/mL<br>0.1-50 ng/mL     | LC/MS/MS | 0.05 mL       | K <sub>2</sub> EDTA | -20              | Richmond | Active          | LCMSC457    |
| T3                                 | Human Serum       | 0.25-8 ng/mL                     | RIA      | 0.2 mL        | None                | -20              | Richmond | Active          | ICD86       |
| T4                                 | Human Serum       | 1-32 µg/dL                       | RIA      | 0.05 mL       | None                | -20              | Richmond | Active          | ICD87       |
| Tacrolimus                         | Human Whole Blood | 0.25-100 ng/mL                   | LC/MS/MS | 0.25 mL       | K <sub>3</sub> EDTA | -20              | Richmond | Active          | LCMS356     |
| Tamsulosin                         | Human Plasma      | 0.05-25 ng/mL                    | LC/MS/MS | 0.5 mL        | Sodium Heparin      | -20              | Madison  | Active          | P682.02     |
|                                    | Dog Plasma        | 0.05-25 ng/mL                    | LC/MS/MS | 0.5 mL        | Sodium Heparin      | -20              | Madison  | <b>Inactive</b> | P750.01     |
|                                    | Pig Plasma        | 0.05-25 ng/mL                    | LC/MS/MS | 0.5 mL        | Sodium Heparin      | -20              | Madison  | Active          | P969.00     |
| Tamsulosin & Dutasteride           | Human Plasma      | 0.025-25 ng/mL<br>0.025-25 ng/mL | LC/MS/MS | 0.2 mL        | K <sub>2</sub> EDTA | -20              | Madison  | Active          | P1068       |
| Telmisartan                        | Human Plasma      | 2-1,000 ng/mL                    | LC/MS/MS | 0.05 mL       | K <sub>2</sub> EDTA | -20              | Richmond | Active          | LCMSC408    |
| Tenofovir & Emtricitabine          | Human Plasma      | 5-1,000 ng/mL<br>20-4,000 ng/mL  | LC/MS/MS | 0.05 mL       | K <sub>2</sub> EDTA | -20              | Richmond | Active          | LCMSC 468   |
|                                    | Human Plasma      | 5-1,000 ng/mL<br>20-4,000 ng/mL  | LC/MS/MS | 0.05 mL       | K <sub>2</sub> EDTA | -20              | Madison  | Active          | P947.00     |
| Terfenadine<br>(Fexofenadine)      | Human Plasma      | 0.05-50 ng/mL<br>0.5-500 ng/mL   | LC/MS/MS | 0.5 mL        | Sodium Heparin      | -20              | Madison  | <b>Inactive</b> | P473.01     |
| Terazosin                          | Human Plasma      | 0.5-200 ng/mL                    | HPLC/FL  | 0.3 mL        | Sodium Heparin      | -20              | Richmond | <b>Inactive</b> | LC270       |

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## LIST OF VALIDATED METHODS JANUARY 2012

| Compound (Metabolite)                                   | Matrix                    | Calibration Range                               | Method   | Sample Volume | Anti-Coagulant      | Storage Temp ° C | Lab Site | Method Status* | Method I.D. |
|---|---------------------------|---|----------|---------------|---------------------|------------------|----------|----------------|-------------|
| Terconazole   | Balb/c Mouse Plasma       | 1-100 ng/mL                                     | LC/MS/MS | 0.025 mL      | K <sub>3</sub> EDTA | -20              | Richmond | Active         | LCMSC217.1  |
| Testosterone (Dihydrotestosterone)                      | Human Serum               | 50–10,000 pg/mL<br>10 -5,000 pg/mL              | LC/MS/MS | 0.15 mL       | None                | -20              | Richmond | Active         | LCMSC260.6  |
|   | Rabbit Serum              | 25–12,500 pg/mL<br>50 -10,000 pg/mL             | LC/MS/MS | 0.25 mL       | None                | -20              | Richmond | Active         | LCMSD260.7  |
| Testosterone, Free (unbound)                            | Human Serum Ultrafiltrate | 1-200 pg/mL                                     | LC/MS/MS | 0.2 mL        | None                | -20              | Richmond | Active         | LCMSC247    |
| Theophylline  | Human Plasma              | 0.05-25 µg/mL                                   | HPLC/UV  | 0.5 mL        | Sodium Heparin      | -20              | Richmond | Inactive       | LC9         |
|   | Human Serum               | 0.05-25 µg/mL                                   | HPLC/UV  | 0.5 mL        | None                | -20              | Richmond | Inactive       | LC9.1       |
| Tiotropium Bromide                                      | Human Plasma              | 0.507-203 pg/mL                                 | LC/MS/MS | 0.5 mL        | K <sub>2</sub> EDTA | -70              | Madison  | Active         | P1086       |
| Tipranavir & Ritonavir                                  | Human Plasma              | 10-10,000 ng/mL<br>10-10,000 ng/mL              | LC/MS/MS | 0.05 mL       | K <sub>2</sub> EDTA | -20              | Madison  | Active         | P1020       |
| TNF-α   | Human Serum               | 15.6-1,000 pg/mL                                | ELISA    | 0.4 mL        | None                | -20              | Richmond | Active         | ICD134      |
| Tobramycin  | Human Plasma              | 10-400 ng/mL                                    | LC/MS/MS | 0.1 mL        | Sodium Heparin      | -20              | Madison  | Active         | P790.00     |
|   | Human Urine               | 100-20,000 ng/mL                                | LC/MS/MS | 0.05 mL       | None                | -20              | Madison  | Inactive       | P769.01     |
| Tolbutamide   | Human Plasma              | 0.1-100 µg/mL                                   | LC/MS/MS | 0.05 mL       | Sodium Heparin      | -20              | Richmond | Active         | LCMSB226    |
| Tolbutamide (Carboxytolbutamide) (4-Hydroxytolbutamide) | Human Urine               | 5-1,000 ng/mL<br>0.6-300 µg/mL<br>0.3-150 µg/mL | LC/MS/MS | 0.02 mL       | None                | -20              | Madison  | Active         | P738.01     |

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## LIST OF VALIDATED METHODS JANUARY 2012

| Compound (Metabolite)                         | Matrix       | Calibration Range                                 | Method     | Sample Volume | Anti-Coagulant      | Storage Temp ° C | Lab Site | Method Status* | Method I.D. |
|---|--------------|---|------------|---------------|---------------------|------------------|----------|----------------|-------------|
|   | Human Plasma | 0.1-100 µg/mL<br>5-5,000 ng/mL<br>2.5-2,500 ng/mL | LC/MS/MS   | 0.1 mL        | Sodium Heparin      | -20              | Madison  | Active         | P737.02     |
| Topiramate                                    | Human Plasma | 10-10,000 ng/mL                                   | LC/MS/MS   | 0.1mL         | K <sub>2</sub> EDTA | -20              | Richmond | Active         | LCMS470     |
| Topiramate<br>(See Cocktail Assay "Epilepsy") | Human Plasma | 0.1-50 µg/mL                                      | LC/MS/MS   | 0.1 mL        | Sodium Heparin      | -70              | Madison  | Active         | P837.00     |
| Topotecan, Total                              | Human Plasma | 0.1-25 ng/mL                                      | LC/MS/MS   | 0.05 mL       | Sodium Heparin      | -70              | Richmond | Active         | LCMSD507    |
| Topotecan Lactone                             | Human Plasma | 0.02-5 ng/mL                                      | LC/MS/MS   | 0.2 mL        | Sodium Heparin      | -70              | Richmond | Active         | LCMSD504    |
| Trastuzumab aka Herceptin                     | Human Serum  | 10-200 µg/mL                                      | ELISA      | 0.2 mL        | None                | -70              | Richmond | Active         | ICD178      |
|   | Human Plasma | 10-100 µg/mL                                      | ELISA      | 0.1 mL        | EDTA                | -20              | Richmond | Active         | ICD178.1    |
| Triamcinolone                                 | Human Plasma | 0.01-2.5 ng/mL                                    | LC/MS/MS   | 0.25 mL       | K <sub>3</sub> EDTA | -70              | Richmond | Active         | LCMSC315    |
|   | Human Plasma | 1-1,000 ng/mL                                     | LC/MS/MS   | 0.1 mL        | K <sub>3</sub> EDTA | -70              | Richmond | Active         | LCMSC315.1  |
| Triamterene<br>(Hydroxytriamterene Sulfate)   | Human Plasma | 0.5-100 ng/mL<br>5-1,000 ng/mL                    | HPLC/FL    | 0.5 mL        | Sodium Heparin      | -20              | Richmond | Inactive       | LC109       |
|   | Human Urine  | 0.10-5 µg/mL<br>1-50 µg/mL                        | HPLC/FL    | 0.1 mL        | None                | -20              | Richmond | Inactive       | LC109.1     |
| TSH   | Human Serum  | 0.250-64 µIU/mL                                   | RIA (IRMA) | 0.4 mL        | None                | -20              | Richmond | Inactive       | ICD179      |
| Valganciclovir<br>(Ganciclovir)               | Human Plasma | 1-500 ng/mL<br>10-5,000 ng/mL                     | LC/MS/MS   | 0.05 mL       | Sodium Citrate      | -70              | Richmond | Active         | LCMSC410    |

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| Compound (Metabolite)                            | Matrix                        | Calibration Range                | Method   | Sample Volume | Anti-Coagulant      | Storage Temp ° C | Lab Site | Method Status* | Method I.D. |
|--|-------------------------------|----------------------------------|----------|---------------|---------------------|------------------|----------|----------------|-------------|
| Valproic Acid                                    | Human Plasma                  | 2-100 µg/mL                      | LC/MS/MS | 0.05 mL       | Sodium Heparin      | -20              | Madison  | Active         | P885.00     |
| Venlafaxine (O-Desmethylvenlafaxine)             | Human Plasma                  | 2-200 ng/mL<br>2-200 ng/mL       | LC/MS/MS | 0.5 mL        | Sodium Heparin      | -20              | Richmond | Active         | LCMS531     |
| Verapamil (Norverapamil)                         | Human Plasma                  | 1-500 ng/mL<br>1-500 ng/mL       | HPLC/FL  | 1.0 mL        | Sodium Heparin      | -20              | Madison  | Inactive       | P072.02     |
| Verapamil Enantiomers (Norverapamil Enantiomers) | Human Plasma                  | 0.5-250 ng/mL<br>0.5-250 ng/mL   | LC/MS/MS | 0.4 mL        | Sodium Heparin      | -20              | Madison  | Active         | P671.00     |
| Vinorelbine                                      | Human Plasma                  | 2-500 ng/mL                      | LC/MS/MS | 0.05 mL       | K <sub>2</sub> EDTA | -70              | Richmond | Active         | LCMS539     |
| Voriconazole (Voriconazole-N-Oxide)              | Human Plasma                  | 10-5,000 ng/mL<br>10-5,000 ng/mL | LC/MS/MS | 0.1 mL        | Sodium Heparin      | -20              | Madison  | Active         | P968.00     |
| Warfarin Enantiomers, (unbound)                  | Human Plasma<br>Ultrafiltrate | 0.5-25 ng/mL<br>0.5-25 ng/mL     | LC/MS/MS | 0.05 mL       | EDTA                | -20              | Madison  | Active         | P921.00     |
| Warfarin Enantiomers                             | Human Serum                   | 5-1,000 ng/mL<br>5-1,000 ng/mL   | LC/MS/MS | 0.5 mL        | None                | -20              | Madison  | Inactive       | P381.01     |
|  | Human Plasma                  | 5-1,000 ng/mL<br>5-1,500 ng/mL   | LC/MS/MS | 0.25 mL       | Sodium Heparin      | -20              | Richmond | Active         | LCMSB194    |
|  | Human Plasma                  | 5-1,500 ng/mL<br>5-1,500 ng/mL   | LC/MS/MS | 0.2 mL        | Sodium Heparin      | -20              | Madison  | Active         | P1044.00    |
| S-warfarin (7-OH-S-warfarin)                     | Human Plasma                  | 5-1,500 ng/mL<br>5-1,000 ng/mL   | LC/MS/MS | 0.2 mL        | Sodium Citrate      | -20              | Madison  | Active         | P832.00     |

\*Inactive methods may require additional time and/or fees prior to reactivation

\*\*Total = Unconjugated + Conjugated Drug.

Unless specifically noted, the free or unconjugated drug is measured.

Shaded entries are NEW to our list



## LIST OF VALIDATED METHODS JANUARY 2012

| Compound (Metabolite) | Matrix       | Calibration Range | Method   | Sample Volume | Anti-Coagulant      | Storage Temp ° C | Lab Site | Method Status* | Method I.D. |
|-----------------------|--------------|-------------------|----------|---------------|---------------------|------------------|----------|----------------|-------------|
| Zolpidem              | Human Plasma | 0.5-500 ng/mL     | LC/MS/MS | 0.05 mL       | K <sub>2</sub> EDTA | -20              | Madison  | Active         | P844.01     |
| Zonisamide            | Human Plasma | 10-5,000 ng/mL    | LC/MS/MS | 0.25 mL       | K <sub>3</sub> EDTA | -20              | Richmond | Active         | LCMS313     |
|                       | Human Serum  | 10-5,000 ng/mL    | LC/MS/MS | 0.25 mL       | None                | -20              | Richmond | Active         | LCMS313.1   |

\*Inactive methods may require additional time and/or fees prior to reactivation

\*\*Total = Unconjugated + Conjugated Drug.

Unless specifically noted, the free or unconjugated drug is measured.

**Shaded entries are NEW to our list**