

Compound (Metabolite)	Matrix	Limit of Quantitation	Units
17-Desacetyl-Norgestimate	Human plasma	50.0	pg/mL
3-Keto-Desogestrel (etonogestrel)	Human plasma	50.0	pg/mL
Acetaminophen	Human plasma	200	ng/mL
Acetylsalicylic Acid	Human plasma	5.00	ng/mL
Acetylsalicylic Acid / Butalbital	Human plasma	20.0 / 10.0	ng/mL
Alendronate	Human urine	1.00	ng/mL
Alfuzosin	Human plasma	150	pg/mL
Aliskiren	Human plasma	1.00	ng/mL
Alprazolam	Human plasma	250	pg/mL
Amlodipine	Human plasma	100	pg/mL
D-Amphetamine L-Amphetamine	Human plasma	600 200	pg/mL
Anagrelide	Human plasma	50.0	pg/mL
Anastrozole	Human plasma	100	pg/mL
Aripiprazole	Human plasma	500	pg/mL
Atomoxetine	Human plasma	2.00	ng/mL
Atorvastatin ( <i>o</i> -Hydroxy-Atorvastatin) ( <i>p</i> -Hydroxy-Atorvastatin)	Human plasma	150 150 100	pg/mL
Atorvastatin ( <i>o</i> -Hydroxy-Atorvastatin) ( <i>p</i> -Hydroxy-Atorvastatin)	Human plasma	20.0 20.0 10.0	pg/mL
Atorvastatin	Human plasma	200	pg/mL
Atorvastatin	Human plasma	250	pg/mL
Benzapril (Benzaprilat)	Human plasma	5.00 7.50	ng/mL
Bezafibrate	Human plasma	15.0	ng/mL

**Warnex Bioanalytical Services**  
**Validated Assay List**



Compound (Metabolite)	Matrix	Limit of Quantitation	Units
Bicalutamide	Human plasma	10.0	ng/mL
S-Bicalutamide	Human plasma	4.00	ng/mL
R-Bicalutamide		16.0	
Bupropion (Hydroxybupropion) ( <i>Erythro</i> -Hydroxybupropion) ( <i>Threo</i> -Hydroxybupropion)	Human plasma	2.50 12.5 4.00 8.00	ng/mL
Butalbital / Acetylsalicylic Acid)	Human plasma	10.0 / 20.0	ng/mL
Caffeine / Codeine	Human plasma	10.0 / 0.500	ng/mL
Carbamazepine (Carbamazepine 10,11-epoxide)	Human plasma	25.0 1.25	ng/mL
Carbidopa / Levodopa	Human plasma	2.00 / 10.0	ng/mL
Carisoprodol / Meprobamate	Human plasma	10.0 / 10.0	ng/mL
Carisoprodol / Meprobamate	Dog plasma	5.00 / 5.10	ng/mL
Carvedilol (4-Hydroxyphenyl Carvedilol)	Human plasma	500 100	pg/mL
Cellulose acetate butyrate	Mini Pig plasma	20.0	µg/mL
Cellulose acetate butyrate	Rat plasma	20.0	µg/mL
Cholecalciferol (Vitamin D <sub>3</sub> )	Human plasma	100	pg/mL
Cholecalciferol	Human serum	0.100	ng/mL
Calcitriol		10.0	pg/mL
Calciferol		2.00	ng/mL
Ciprofloxacin / Gatifloxacin	Human plasma	50.0 / 50.0	ng/mL
Clarithromycin	Human plasma	10.0 & 15.0	ng/mL
Clonidine	Human plasma	1.00 & 10.0	pg/mL
Clonidine	Rabbit plasma	10.0	pg/mL
Codeine / Caffeine	Human plasma	0.500 / 10.0	ng/mL

Compound (Metabolite)	Matrix	Limit of Quantitation	Units
Cyclobenzaprine	Human plasma	50.0 & 100.0	pg/mL
Cyproterone Acetate	Human plasma	250 & 900	pg/mL
Danazol	Human plasma	800	pg/mL
Darifenacin	Human plasma	20.0	pg/mL
Desloratadine (3-Hydroxy-Desloratadine)	Human plasma	25.0 12.0	pg/mL
Diclofenac	Human plasma	8.00	ng/mL
Dienogest	Human plasma	500	pg/mL
Didanosine	Human plasma	10.0	ng/mL
Diltiazem (N-Desmethyl Diltiazem) (Desacetyl Diltiazem)	Human plasma	1.50 300 150	ng/mL pg/mL pg/mL
Dipyridamole	Human plasma	10.0	ng/mL
Donepezil	Human plasma	100	pg/mL
Doxazosin	Human plasma	500	pg/mL
Doxercalciferol (Ercalcitriol)	Human serum	2.00	pg/mL
Doxercalciferol (Ercalcitriol)	Human plasma	2.00	pg/mL
Doxylamine / Pyridoxine	Human plasma	500 / 250	pg/mL
Drosperinone	Human plasma	75 & 500	pg/mL
Enalapril (Enalaprilat)	Human plasma	500 250	ng/mL
Esomeprazole	Human plasma	4.0	ng/mL
Estradiol Free	Human plasma	1.00 / 2.00	pg/mL

Compound (Metabolite)	Matrix	Limit of Quantitation	Units
Estrone Free Equilin Free	Human plasma	4.00 2.00	pg/mL
Estrone Free Estradiol Free	Human plasma	5.00 2.00	pg/mL
Estrone Free Equilin Free Delta 8,9-Dehydroestrone	Human plasma	5.00 2.00 2.00	pg/mL
Estrone Free Estradiol Free Equilin Free Dihydroequilin Free	Human plasma	4.00 2.00 2.00 2.00	pg/mL
Estrone Total Equilin Total	Human plasma	50.0 50.0	pg/mL
Estrone Total Equilin Total	Rabbit plasma	50.0 50.0	pg/mL
Estrone Total	Human serum	50 / 150	pg/mL
Estrone Total	Human plasma	150	pg/mL
Estradiol Total	Human serum	2.00	pg/mL
Ethinyl Estradiol	Human plasma	2.00	pg/mL
Etidronate	Human plasma	10.0	ng/mL
Ezetimibe Free	Human plasma	50.0	pg/mL
Ezetimibe Total	Human plasma	500	pg/mL
Felodipine	Human plasma	10.0	pg/mL
Fenofibric Acid	Rat plasma	10.0	ng/mL
Fenofibric Acid	Human plasma	50.0	ng/mL

Compound (Metabolite)	Matrix	Limit of Quantitation	Units
Fentanyl	Human plasma	10.0	pg/mL
Fexofenadine / Pseudoephedrine	Human plasma	1.00 / 1.50	ng/mL
Finasteride	Human plasma	100 / 500	pg/mL
Fosinoprilat	Human plasma	5.00	ng/mL
Gabapentin	Human plasma	10.0	ng/mL
Galanthamine	Human plasma	100	pg/mL
Ganciclovir / Valganciclovir	Human plasma	70.0 / 5.0	ng/mL
Gatifloxacin / Ciprofloxacin	Human plasma	50.0 / 50.0	ng/mL
Glimepiride	Human plasma	1.00	ng/mL
Glipizide	Human plasma	10.0	ng/mL
Glyburide	Human plasma	2.50	ng/mL
Hydrochlorothiazide	Human plasma	1.50 & 3.00	ng/mL
Hydrocodone	Human plasma	200	pg/mL
Hydrocortisone	Human plasma	10.0	ng/mL
Ibuprofen	Human plasma	500	ng/mL
Irbesartan	Human plasma	30.0	ng/mL
Isradipine	Human plasma	50.0	pg/mL
Itraconazole (Hydroxy-Itraconazole)	Human plasma	1.00 1.25	ng/mL
KCl	Human urine	0.500	mg/L
Letrozole	Human plasma	1.00	ng/mL
Levetiracetam	Human plasma	250	ng/mL
Levodopa / Carbidopa	Human plasma	10.0 / 2.00	ng/mL
Levomefolate (Chiral LC method)	Human plasma	1.0	ng/mL
Levonorgestrel	Human plasma	80.0 & 150 & 250	pg/mL

Compound (Metabolite)	Matrix	Limit of Quantitation	Units
Lisinopril	Human plasma	1.00	ng/mL
Lisdexamfetamine D-Amphetamine	Human plasma	0.250 1.25	ng/mL
Loratadine (Descarboethoxyloratadine)	Human plasma	40.0 40.0	pg/mL
Lorazepam	Human plasma	300	pg/mL
Losartan	Human plasma	6.00	ng/mL
Lubiprostone	Human plasma	1.00	pg/mL
Lubiprostone	Rat plasma	35.0	pg/mL
Meloxicam	Dog plasma	5.0	ng/mL
Meloxicam	Human plasma	10.0	ng/mL
Meprobamate / Carisoprodol	Dog plasma	5.10 / 5.00	ng/mL
Meprobamate / Carisoprodol	Human plasma	10.0 / 10.0	ng/mL
Metformin	Human plasma	25.0	ng/mL
Methylphenidate	Human plasma	50.0	pg/mL
Metoprolol	Human plasma	500	pg/mL
Mesalamine	Human plasma	7.0 & 14.0	ng/mL
Minocycline	Human plasma	10.0	ng/mL
Mirtazepine	Human plasma	100	pg/mL
Misoprostol Acid	Human plasma	1.00	pg/mL
Morphine (Morphine-6 $\beta$ -D-Glucuronide)	Human plasma	0.500 & 0.800 2.5 & 4.0	ng/mL
Naproxen	Human plasma	1.00 & 1.50	$\mu$ g/mL
Naratriptan	Human serum	75.0	pg/mL
Niacin Nicotinuric Acid	Human plasma	1.0 10.0	ng/mL

Compound (Metabolite)	Matrix	Limit of Quantitation	Units
Norethindrone	Human plasma	200 & 400	pg/mL
Norgestrel	Human plasma	80.0 & 150 & 250	pg/mL
Norgestimate	Human plasma	50.0	pg/mL
Olanzapine	Human plasma	100	pg/mL
Omeprazole	Human plasma	1.00	ng/mL
Omega 3 Eicosapentaenoic Acid – EPA (Total) Docosahexaenoic Acid – DHA (Total)	Human plasma	1.60 8.00	µg/mL
Oxcarbazepine (10,11-Dihydrooxcarbazepine)	Human plasma	20.0 50.0	ng/mL
Oxybutynin	Dog plasma	200	pg/mL
Oxybutynin (Desethyloxybutynin)	Dog plasma	1.00	ng/mL
Oxycodone	Human plasma	300	pg/mL
Paracalcitol	Human plasma	5.00 / 10.0	pg/mL
Paroxetine	Human plasma	100	pg/mL
Pravastatin	Human plasma	500	pg/mL
Progesterone	Human plasma	50.0 & 100	pg/mL
Propafenone (5-Hydroxy Propafenone)	Human plasma	200 100	pg/mL
Propranolol Free	Human plasma	1.00	ng/mL
Propranolol Total (4-OH Propranolol Total)	Human plasma	2.00 0.500	ng/mL
Propoxyphene	Human plasma	250 & 1010	pg/mL
Pseudoephedrine / fexofenadine	Human plasma	1.50 / 1.00	ng/mL
Pyridostigmine	Human plasma	1.00	ng/mL

<b>Compound (Metabolite)</b>	<b>Matrix</b>	<b>Limit of Quantitation</b>	<b>Units</b>
Pyridoxal (Pyridoxal-5-Phosphate)	Human plasma	0.500 5.00	ng/mL
Pyridoxine / Doxylamine	Human plasma	250 / 500	pg/mL
Quetiapine	Human Plasma	4.00	ng/mL
Raloxifene (Raloxifene-4-Glucuronide) (Raloxifene-6-Glucuronide)	Human plasma	5.00 2000 300	pg/mL
Ramipril	Human plasma	200	pg/mL
Repaglinide	Human plasma	200	pg/mL
Risedronate	Human plasma	200	pg/mL
Risperidone	Human plasma	50.0	ng/mL
Rivastigmine	Human plasma	200 & 20.0	pg/mL
Ropinirole	Human plasma	10.0 & 34.3	pg/mL
Rosiglitazone	Human plasma	2.00	ng/mL
Sertraline	Human plasma	250	pg/mL
Simvastatin (Simvastatin Hydroxy Acid)	Human plasma	100 100	pg/mL
Sotalol	Human plasma	20.0	ng/mL

Compound (Metabolite)	Matrix	Limit of Quantitation	Units
Sumatriptan	Human plasma	500	pg/mL
Tamsulosin	Human plasma	250	pg/mL
Telmisartan	Human plasma	4.00	ng/mL
Terbinafine	Human plasma	990	pg/mL
Tramadol (O-Desmethyl-Tramadol)	Pig serum	2.00 1.00	ng/mL ng/mL
Tramadol (O-Desmethyl-Tramadol)	Human plasma	10.0 1.25	ng/mL ng/mL
Tramadol (O-Desmethyl-Tramadol)	Human plasma	1000 200	pg/mL
Trimebutine (N-Desmethyl Trimebutine)	Human plasma	1.00 12.5	ng/mL ng/mL
Valproic Acid	Human plasma	1.00	µg/mL
Valganciclovir / Ganciclovir	Human plasma	5.00 / 70.0	ng/mL
Valsartan	Human plasma	10.0	ng/mL
Venlafaxine (O-Desmethyl Venlafaxine)	Human plasma	2.50 2.50	ng/mL
Verapamil (Norverapamil)	Human plasma	1.00 1.00	ng/mL
Vitamine D <sub>3</sub> (Cholecalciferol)	Human plasma	100	pg/mL
Voriconazole	Human plasma	10.0	ng/mL
Ziprasidone	Human serum	400	pg/mL

<b>Compound (Metabolite)</b>	<b>Matrix</b>	<b>Limit of Quantitation</b>	<b>Units</b>
Zolmitriptan	Human plasma	40.0	pg/mL
Zolpidem	Human plasma	1.00	ng/mL
25-Hydroxy-vitamin D2 (DEQUAS certified)	Human plasma	5.0	ng/mL
25-Hydroxy-vitamin D3 (DEQUAS certified)	Human plasma	5.0	ng/mL

**For more information, please contact:**

**Neal Erps**  
*Director, Business Development*  
*Warnex Bioanalytical Services*  
*Office US: (201) 490-5050*  
*Cell: (914) 400-3331*  
*E-mail: [nerps@warnex.ca](mailto:nerps@warnex.ca)*