

The logo for KCOAS, featuring the letters 'KCOAS' in a stylized, orange, sans-serif font. The 'K' and 'C' are connected, and the 'O' is a simple circle. The 'A' and 'S' are also connected to the 'O'.

Bioanalytical & Biomarker Services

Validated Method List

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Comprehensive Small Molecule Validated Method List

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Comprehensive Large Molecule Qualified Method List

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Validated Method List

New Methods & Methods Under Development



New Methods

Analyte	Matrix	LLOQ	Unit	Platform
Budesonide	Human Plasma	10	pg/mL	LC-MS/MS
Chlorpromazine / 7-Hydroxychlorpromazine	Human Plasma	0.25 / 0.1	ng/mL	LC-MS/MS
Dexamethasone Acetate / Dexamethasone	Rabbit Ocular Tissues	0.2 / 40	ng/g	LC-MS/MS
Dexamethasone Acetate / Dexamethasone	Rabbit Ocular Fluids	0.2 / 40	ng/g	LC-MS/MS
Nicotine	Human Plasma	.20	ng/mL	LC-MS/MS
Nicotine / Cotinine / trans-3'-OH-Cotinine	Human Plasma	0.5 / 1 / 1	ng/mL	LC-MS/MS

Methods Under Development

Analyte	Matrix	LLOQ	Unit	Platform
Carboxyhemoglobin (COHb)	Human Whole Blood	1	%	Colorimetric
Naloxone	Human Plasma	5	pg/mL	LC-MS/MS
Nicotine Equivalents – Urine (UNE)	Human Urine	10 / 10 / 10	ng/mL	LC-MS/MS
NNAL, Total (Tobacco Specific Nitrosamine)	Human Urine	5	pg/mL	LC-MS/MS
NNN, Total (Tobacco Specific Nitrosamine)	Human Urine	0.2	pg/mL	LC-MS/MS
Tetrahydrocannabinol (THC), Delta-9- / 11-OH-Delta-9 / CBD	Human Plasma	0.5 / 0.25 / 0.25	ng/mL	LC-MS/MS
Treprostinil	Human Plasma	10	pg/mL	LC-MS/MS

Analyte	Matrix	LLOQ	Unit	Platform
Acebutolol / Diacetolol	Human Plasma	5	ng/mL	HPLC/UV
Acetaminophen (APAP)	Human Plasma	0.1	mcg/mL	LC-MS/MS
Acetaminophen / Tramadol	Human Plasma	100 / 5	ng/mL	LC-MS/MS
Acetylsalicylic Acid / Salicylic Acid	Human Plasma	0.25/0.75	mcg/mL	HPLC/UV
Acid Glycoprotein, α_1	Human Plasma	3.5	ng/mL	ELISA
Acyclovir	Human Plasma	20	ng/mL	HPLC/FL
Acyclovir	Human Urine	1	mcg/mL	HPLC/FL
Adipenectin	Human Serum	0.8	ng/mL	ELISA
Alkaline Hematin (see Menstrual Blood)	Feminine Hygiene Products			
Allopurinol / Oxypurinol	Human Plasma	50 / 100	ng/mL	LC-MS/MS
Alprazolam / α-Hydroxyalprazolam	Dog Plasma	0.5 / 0.5	ng/mL	LC-MS/MS
Alprazolam / α-Hydroxyalprazolam	Human Plasma	0.5 / 0.5	ng/mL	LC-MS/MS
Aluminum	Human Plasma	5 / 2	ng/mL	HPLC
Aluminum	Human Urine	5 / 2	ng/mL	HPLC
Amikacin	Human Serum	0.15	mcg/mL	LC-MS/MS
Amikacin	Human Urine	0.5	mcg/mL	LC-MS/MS
Aminosalicic Acid, 5-	Human Feces	1	ng on col	HPLC/FL
Aminosalicic Acid, 5-	Human Urine	2	mcg/mL	HPLC/FL
Aminosalicic Acid, 5-	Rat Plasma	10	ng/mL	LC-MS/MS
Aminosalicic Acid, 5- / N-Acetyl-5-Aminosalicic Acid	Human Plasma	10 / 10	ng/mL	HPLC/FL
Amiodarone / Desethylamiodarone	Human Plasma	10	ng/mL	LC-MS/MS
Amitriptyline	Human Plasma	200	pg/mL	LC-MS/MS
Amlodipine	Human Plasma	50	pg/mL	LC-MS/MS
Amlodipine	Human Plasma	0 / 15	ng/mL	LC-MS/MS
Amyloid Beta 38 ($A\beta$-38)	Human CSF	60	pg/mL	ECL
Amyloid Beta 40 ($A\beta$-40)	Human CSF	25	pg/mL	ECL
Amyloid Beta 42 ($A\beta$-42)	Human CSF	4	pg/mL	ECL
Anipamil	Human Plasma	5	ng/mL	HPLC/FL
Aprepitant	Human Plasma	10	ng/mL	LC-MS/MS
Aspirin (See Acetylsalicylic Acid)	Human Plasma	0.25	ng/mL	HPLC/UV
Atenolol	Human Plasma	10	ng/mL	LC-MS/MS
Atenolol	Human Urine	250	ng/mL	LC-MS/MS
Atenolol, (R)- and (S)-	Human Plasma	20 / 20	ng/mL	HPLC/FL
Atenolol, (R)- and (S)-	Rat Plasma	20 / 20	ng/mL	HPLC/FL
Atomoxetine	Human Plasma	10	ng/mL	LC-MS/MS
Atorvastatin / p- and o-Hydroxyatorvastatin	Human Plasma	0.2 / 0.2 / 0.2	ng/mL	LC-MS/MS
Azacytidine, 5-	Human Plasma	10	ng/mL	LC-MS/MS
Azithromycin	Human Plasma	2	ng/mL	LC-MS/MS
Benazepril/ Benazeprilat	Dog Plasma	0.1 / 0.5	ng/mL	LC-MS/MS
Benazepril / Benazeprilat	Human Plasma	2 / 2	ng/mL	LC-MS/MS
Bicalutamide	Human Plasma	2.5	ng/mL	LC-MS/MS

Analyte	Matrix	LLOQ	Unit	Platform
Bucladesine	Human Plasma	1	ng/mL	LC-MS/MS
Brompheniramine / Chlorpheniramine / Pseudoephedrine	Human Plasma	0.5 / 0.5 / 5	ng/mL	LC-MS/MS
Buprenorphine / Norbuprenorphine	Dog Plasma	100	pg/mL	LC-MS/MS
Buprenorphine / Norbuprenorphine	Human Plasma	50	pg/mL	LC-MS/MS
Buprenorphine / Norbuprenorphine	Rabbit Plasma	50	pg/mL	LC-MS/MS
Buspironone / 1-PP	Dog Plasma	100	pg/mL	LC-MS/MS
Buspironone / 1-PP	Human Plasma	100	pg/mL	LC-MS/MS
Butalbital	Human Plasma	0.1	mcg/mL	HPLC/UV
Butorphanol	Human Plasma	20	pg/mL	LC-MS/MS
Caffeine	Human Plasma	0.05	mcg/mL	HPLC/UV
Canrenone	Human Plasma	2	ng/mL	LC-MS/MS
Canrenone	Human Urine	20	ng/mL	LC-MS/MS
Captisol	Human Plasma	5	mcg/mL	LC-MS/MS
Carbamazepine	Human Plasma	0.05	mcg/mL	HPLC/UV
Carisbamate	Human Plasma	5	ng/mL	LC-MS/MS
Cetirizine	Human Plasma	2	ng/mL	LC-MS/MS
Chlorpheniramine	Human Plasma	0.5	ng/mL	LC-MS/MS
Chlorzoxazone	Human Plasma	20	ng/mL	LC-MS/MS
Cimetidine	Dog Plasma	50	ng/mL	HPLC/UV
Cimetidine	Human Plasma	50	ng/mL	HPLC/UV
Ciprofloxacin	Cat Plasma	25	ng/mL	HPLC/FL
Ciprofloxacin	Human Serum	10	ng/mL	LC-MS/MS
Ciprofloxacin	Human Plasma	10	ng/mL	LC-MS/MS
Cisapride	Human Plasma	5	ng/mL	HPLC/FL
Citric Acid	Human Urine	50	mcg/mL	LC-MS/MS
Clarithromycin	Human Plasma	10	ng/mL	LC-MS/MS
Clonazepam / 7-Hydroxyclozepam	Human Plasma	0.1 / 0.2	pg/mL	LC-MS/MS
Clonidine	Human Plasma	10	pg/mL	LC-MS/MS
Clotrimazole / Ketoconazole	Human Plasma	5 / 50	ng/mL	LC-MS/MS
Cluster of Differentiation 14 (CD-14)	Human Plasma	100	pg/mL	ELISA
Codeine	Human Plasma	1	ng/mL	LC-MS/MS
Cordycepin	Human Plasma	1	ng/mL	LC-MS/MS
Cortisol	Human Plasma	40.4	ng/mL	LC-MS/MS
Cortisone	Human Plasma	5	ng/mL	HPLC/UV
Cromolyn	Human Plasma	10	ng/mL	LC-MS/MS
Cromolyn	Human CSF	0.1	ng/mL	LC-MS/MS
Cyclobenzaprine	Dog Plasma	0.1	ng/mL	LC-MS/MS
Cyclobenzaprine	Human Plasma	0.2	ng/mL	LC-MS/MS
Cytarabine (Ara-C)	Human Plasma	20	ng/mL	LC-MS/MS
Deoxycholic Acid	Human Plasma	10	ng/mL	LC-MS/MS
Dexamethasone	Human Plasma	0.25	ng/mL	LC-MS/MS
Dextromethorphan	Human Plasma	50	pg/mL	LC-MS/MS

Analyte	Matrix	LLOQ	Unit	Platform
Dextromethorphan / 3-Hydroxymorphinan / 4-Methoxymorphinan	Human Plasma	10	ng/mL	HPLC/FL
Dextromethorphan / 3-Hydroxymorphinan / 4-Methoxymorphinan	Human Urine	0.25	mcg/mL	HPLC/FL
Dextrorphan	Human Plasma	10	ng/mL	HPLC/FL
Dextrorphan	Human Urine	250	ng/mL	HPLC/FL
Diclofenac	Human Plasma	5	ng/mL	LC-MS/MS
Diclofenac	Rat Plasma	10	ng/mL	HPLC/UV
Digoxin	Human Plasma	0.1	ng/mL	LC-MS/MS
Diltiazem / N-Desmethyldiltiazem / Desacetyldiltiazem	Human Plasma	4 / 2 / 1	ng/mL	LC-MS/MS
Diphenhydramine	Human Plasma	1	ng/mL	LC-MS/MS
Dipyridamole	Human Plasma	50	ng/mL	LC-MS/MS
DNA Quantitation	Human Tissue	50	ng/mL	Fluorometric
Doxepin / Nordoxepin	Human Urine	0.25 / 0.20	ng/mL	LC-MS/MS
Doxorubicin	Human Urine	1.5	ng/mL	LC-MS/MS
Doxorubicin/Doxorubicinol	Human Plasma	0.5 / 0.5	ng/mL	LC-MS/MS
Doxylamine	Human Plasma	5 / 100	ng/mL	HPLC/UV
Doxylamine	Human Urine	5 / 100	ng/mL	HPLC/UV
Dyclonine	Dog Serum	1	ng/mL	LC-MS/MS
Ebastine	Human Plasma	10	ng/mL	HPLC/UV
Efavirenz	Human Plasma	50	ng/mL	LC-MS/MS
Enalapril / Enalaprilat	Human Plasma	0.25	ng/mL	LC-MS/MS
Eotaxin	Human Plasma	5.86	pg/mL	ECL
Eotaxin-3	Human Plasma	4.85	pg/mL	ECL
Esomeprazole	Human Plasma	0.25	ng/mL	LC-MS/MS
Ethambutol	Human DBS	100	ng/mL	LC-MS/MS
Famotidine	Human Plasma	2	ng/mL	LC-MS/MS
Famotidine	Human Urine	2	ng/mL	LC-MS/MS
Felodipine	Human Plasma	25	pg/mL	LC-MS/MS
Femoxitine / N-Desmethylfemoxitine	Human Plasma	5	ng/mL	HPLC/FL
Femoxitine / N-Desmethylfemoxitine	Monkey Plasma	5	ng/mL	HPLC/FL
Fenofibric Acid	Human Plasma	20	ng/mL	LC-MS/MS
Fexofenadine	Human Plasma	1	ng/mL	LC-MS/MS
Fexofenadine	Mouse Plasma	25	ng/mL	LC-MS/MS
Fexofenadine	Rabbit Plasma	25	ng/mL	LC-MS/MS
Fexofenadine	Rat Plasma	25	ng/mL	LC-MS/MS
Flavoxate / MFCA metabolite	Human Plasma	0.1	ng/mL	LC-MS/MS
Flurbiprofen	Human Plasma	5	ng/mL	LC-MS/MS
Flurbiprofen, (R)- and (S)-	Human Plasma	0.25	mcg/mL	HPLC/FL
Flurbiprofen, (R)- and (S)-	Human Urine	0.5	mcg/mL	HPLC/FL
Furosemide	Human Plasma	50	ng/mL	LC-MS/MS
Furosemide	Human Urine	50	ng/mL	LC-MS/MS

Analyte	Matrix	LLOQ	Unit	Platform
Gemcitabine	Human Plasma	40	ng/mL	HPLC/UV
Gemcitabine	Human Urine	40	ng/mL	HPLC/UV
Gemfibrozil	Human Plasma	0.5	mcg/mL	HPLC/UV
Ghrelin Active	Human Plasma	100	pg/mL	ELISA
Ghrelin Total	Human Plasma	200	pg/mL	ELISA
Gliclazide	Human Plasma	100	ng/mL	HPLC/UV
Granisetron	Dog Plasma	0.1	ng/mL	LC-MS/MS
Granulocyte Macrophage- Colony Stimulating Factor (GM-CSF)	Human Plasma	0.243	pg/mL	ECL
Guaifenesin / Naproxen	Human Plasma	10 / 250	ng/mL	LC-MS/MS
Haloperidol	Human Plasma	25	pg/mL	LC-MS/MS
Hepatocyte Growth Factor (HGF)	Human Plasma	400	pg/mL	ELISA
Heptazyme Antibodies	Monkey Serum	1:25,600	titer	ELISA
Homocysteine	Dog Plasma	5	mcg/mL	LC-MS/MS
Homocysteine	Rat Plasma	5	mcg/mL	LC-MS/MS
Hydrochlorothiazide (HCTZ)	Human Plasma	1	ng/mL	HPLC/UV
Hydrochlorothiazide (HCTZ)	Human Urine	0.05	mcg/mL	HPLC/UV
Hydrocodone	Human Plasma	0.1	ng/mL	LC-MS/MS
Hydromorphone	Dog Plasma	20	pg/mL	LC-MS/MS
Hydromorphone	Human Plasma	40	pg/mL	LC-MS/MS
Hydroxymephenytoin, (R)-4- / Hydroxymephenytoin, (S)-4-	Human Plasma	10	ng/mL	LC-MS/MS
Hydroxymephenytoin, (R)-4- / Hydroxymephenytoin, (S)-4-	Human Saliva	10	ng/mL	LC-MS/MS
Hydroxymephenytoin, (R)-4- / Hydroxymephenytoin, (S)-4-	Human Urine	0.1	mcg/mL	LC-MS/MS
Hydroxymidazolam, α - / Hydroxymidazolam, 4-	Dog Plasma	2 / 2	ng/mL	LC-MS/MS
Hydroxymidazolam, α - / Hydroxymidazolam, 4-	Rat Plasma	2 / 2	ng/mL	LC-MS/MS
Ibuprofen	Human Plasma	0.25	mcg/mL	LC-MS/MS
Ibuprofen	Human CSF	0.3	ng/mL	LC-MS/MS
Ibuprofen	Human Plasma	25	ng/mL	LC-MS/MS
Ibuprofen, (R)- and (S)-	Human Plasma	0.25	mcg/mL	HPLC/UV
Ibuprofen, (R)- and (S)-	Human Urine	2.5	mcg/mL	HPLC/FL
Imipramine / Desipramine	Human Plasma	0.1	ng/mL	LC-MS/MS
Indocyanine Green (ICG)	Human Plasma	0.3	mcg/mL	HPLC/UV
Indomethacin	Human Plasma	10	ng/mL	LC-MS/MS
Indomethacin	Plasma/Serum	20	ng/mL	HPLC/FL
Interferon alpha	Human Serum	10	pg/mL	ELISA
Interferon β 1 (IFN- β 1)	Human Plasma	2	pg/mL	ELISA
Interferon- γ (IFN- γ)	Human Plasma	1.33	pg/mL	ECL
Interferon- γ (IFN- γ)	Human Plasma	15	pg/mL	ELISA

Analyte	Matrix	LLOQ	Unit	Platform
Interleukin-1 α (IL-1 α)	Human Plasma	0.396	pg/mL	ECL
Interleukin-1 β (IL-1 β)	Human Plasma	0.46	pg/mL	ECL
Interleukin-2 (IL-2)	Human Plasma	0.315	pg/mL	ECL
Interleukin-4 (IL-4)	Human Plasma	0.064	pg/mL	ECL
Interleukin-5 (IL-5)	Human Plasma	3.56	pg/mL	ECL
Interleukin-6 (IL-6)	Human Plasma	0.626	pg/mL	ECL
Interleukin-7 (IL-7)	Human Plasma	0.205	pg/mL	ECL
Interleukin-8 (IL-8)	Human Plasma	0.488	pg/mL	ECL
Interleukin-8 (IL-8(HA))	Human Plasma	1185.9	pg/mL	ECL
Interleukin-10 (IL-10)	Human Plasma	0.309	pg/mL	ECL
Interleukin-10 (IL-10)	Human Plasma	0.5	pg/mL	ECL
Interleukin-10 (IL-10)	Rat Plasma	20	pg/mL	ECL
Interleukin-10 (IL-10)	Rat Tissue	20	pg/mL	ECL
Interleukin-12 (IL-12/IL-23p40)	Human Plasma	0.786	pg/mL	ECL
Interleukin-12 (IL-12p70)	Human Plasma	0.401	pg/mL	ECL
Interleukin-13 (IL-13)	Human Plasm	2.45	pg/mL	ECL
Interleukin-15 (IL-15)	Human Plasma	0.19	pg/mL	ECL
Interleukin-16 (IL-16)	Human Plasma	2.47	pg/mL	ECL
Interleukin-17A (IL-17A)	Human Plasm	1.47	pg/mL	ECL
Interferon- γ – Inducible Protein-10(IP-10)	Human Plasma	150	pg/mL	ECL
Isotretinoin / 4-Oxo-Isotretinoin	Human Plasma	10	ng/mL	LC-MS/MS
Isradapine	Human Plasma	0.1	ng/mL	LC-MS/MS
Ketoconazole / Clotrimazole	Human Plasma	50 / 5	ng/mL	LC-MS/MS
Ketoprofen	Human Plasma	0.25	ng/mL	LC-MS/MS
Lansoprazole	Human Plasma	0.25	ng/mL	LC-MS/MS
Levofloxacin	Rabbit Plasma	10	ng/mL	LC-MS/MS
Lorazepam	Human Plasma	0.2	ng/mL	LC-MS/MS
Losartan / Carboxylosartan	Human Plasma	2 / 2	ng/mL	LC-MS/MS
Meloxicam	Human Plasma	10	ng/mL	LC-MS/MS
Melphalan	Human Plasma	25	ng/mL	LC-MS/MS
Memantine	Human Plasma	0.5	ng/mL	LC-MS/MS
Memantine N-Glucuronide	Human Plasma	0.2	ng/mL	LC-MS/MS
Menstrual Blood (as Alkaline Hematin)	Menstrual Products	1	mL	Colorimetric
Mephentoin, (R)- / Mephentoin, (S)-	Human Plasma	10	ng/mL	LC-MS/MS
Mephentoin, (R)- / Mephentoin, (S)-	Human Saliva	10	ng/mL	LC-MS/MS

Analyte	Matrix	LLOQ	Unit	Platform
Mephenytoin, (R)- / Mephenytoin, (S)-	Human Urine	0.1	mcg/mL	LC-MS/MS
Mercaptopurine, 6- / 6-Thiouric Acid	Human Plasma	2 / 20	ng/mL	LC-MS/MS
Mercaptopurine, 6- / 6-Thiouric Acid	Human Urine	6 / 60	ng/mL	LC-MS/MS
Metformin	Human Plasma	20	ng/mL	LC-MS/MS
Methocarbamol	Human Plasma	0.1	mcg/mL	HPLC/FL
Methylnicotinamide	Human Plasma	10	ng/mL	LC-MS/MS
Methylphenidate	Human Plasma	0.1	ng/mL	LC-MS/MS
Metoclopramide	Human Plasma	1	ng/mL	HPLC/UV
Metoclopramide	Human Urine	60	ng/mL	HPLC/FL
Metoprolol	Human Plasma	1	ng/mL	LC-MS/MS
Metoprolol / Hydroxymetoprolol	Human Plasma	2.5	ng/mL	HPLC/FL
Metoprolol / Hydroxymetoprolol	Human Urine	1000	ng/mL	HPLC/FL
Midazolam / α-Hydroxymidazolam	Human Plasma	0.5 / 0.5	ng/mL	LC-MS/MS
Midazolam / 1-Hydroxymidazolam / 4-Hydroxymidazolam	Human Urine	10 / 2 / 2	ng/mL	LC-MS/MS
Midazolam / α-Hydroxymidazolam	Human Urine	20 / 0.5	ng/mL	LC-MS/MS
Molindone	Human Plasma	0.25	ng/mL	LC-MS/MS
Monocyte Chemotactic Protein 1 (MCP-1)	Human Plasma	0.109	pg/mL	ECL
Monocyte Chemotactic Protein 1 (MCP-1)	Human Plasma	30	pg/mL	ELISA
Monocyte Chemotactic Protein 3 (MCP-3)	Human Plasma	15	pg/mL	ELISA
Monocyte Chemotactic Protein 4 (MCP-4)	Human Plasma	9.41	pg/mL	ECL
Macrophage-Derived Chemokine (MDC)	Human Plasma	10.4	pg/mL	ECL
Macrophage Inflammatory Protein (MIP-1α)	Human Plasma	3.68	pg/mL	ECL
Macrophage Inflammatory Protein (MIP-1β)	Human Plasma	0.99	pg/mL	ECL
Morphine / Morphine-3-Glucuronide / Morphine-6-Glucuronide	Dog Plasma	0.5 / 5 / 2	ng/mL	LC-MS/MS
Morphine / Morphine-3-Glucuronide / Morphine-6-Glucuronide	Human Plasma	0.5 / 5 / 2	ng/mL	LC-MS/MS
Morphine / Morphine-3-Glucuronide / Morphine-6-Glucuronide	Ovine Plasma	0.5 / 5 / 2	ng/mL	LC-MS/MS
Moxifloxacin	Human DBS	100	ng/mL	LC-MS/MS
Moxifloxacin	Human Plasma	20	ng/mL	LC-MS/MS
Naproxen	Human Plasma	0.25	mcg/mL	LC-MS/MS
Niacin (Nicotinic Acid) / Nicotinuric Acid	Human Urine	25	ng/mL	LC-MS/MS
Nifedipine / NPO	Human Plasma	1	ng/mL	LC-MS/MS
Nitrofurantoin	Human Plasma	5	ng/mL	HPLC/UV
Nitrofurantoin	Human Urine	2	mcg/mL	HPLC/UV
Noroxycodone	Human Plasma	0.25	ng/mL	LC-MS/MS
Olanzapine	Human Plasma	0.1	ng/mL	LC-MS/MS
Omeprazole	Human Plasma	5	ng/mL	LC-MS/MS
Ondansetron	Human Plasma	0.5	ng/mL	LC-MS/MS

Validated Method List A- Z

Analyte	Matrix	LLOQ	Unit	Platform
Oxandrolone	Human Plasma	0.25	ng/mL	LC-MS/MS
Oxaprozin	Human Plasma	2	mcg/mL	HPLC/UV
Oxybutynin / N-Desethyloxybutynin	Human Plasma	50 / 250	pg/mL	LC-MS/MS
Oxycodone / Noroxycodone / Oxymorphone	Human Plasma	0.25	ng/mL	LC-MS/MS
Oxymorphone	Human Plasma	0.25	ng/mL	LC-MS/MS
Paclitaxel	Human Plasma	100	pg/mL	LC-MS/MS
Paclitaxel	Human Urine	5	ng/mL	LC-MS/MS
Pantoprazole	Human Plasma	10	ng/mL	LC-MS/MS
Paraxanthine	Human Plasma	25	ng/mL	HPLC/UV
Paroxetine	Human Plasma	0.2	ng/mL	LC-MS/MS
Pentazocine	Human Plasma	1	ng/mL	LC-MS/MS
Phenylephrine	Human Plasma	0.5	ng/mL	LC-MS/MS
Phenylephrine	Human Urine	5	ng/mL	LC-MS/MS
Phenytoin	Human Plasma	0.25	mcg/mL	HPLC/UV
Phenytoin	Human Urine	1	mcg/mL	HPLC/UV
Phenytoin / Phenylhydantoin / Phenobarbital (Free Assay)	Human Urine	0.1	mcg/mL	HPLC/UV
Pindolol	Human Plasma	1	ng/mL	HPLC/UV
Piroxicam	Human Plasma	50	ng/mL	HPLC/UV
Potassium	Human Urine	8	mM	ICP-MS
Prednisolone	Human Plasma	1	ng/mL	HPLC/UV
Prednisone	Human Plasma	1	ng/mL	HPLC/UV
Primidone	Human Plasma	25	ng/mL	LC-MS/MS
Propafenone / N-Despropylpropafenone- / 5-Hydroxypropafenone	Human Plasma	250	pg/mL	LC-MS/MS
Propofol	Human Plasma	2.5	ng/mL	HPLC/FL
Propoxyphene/Norpropoxyphene	Human Plasma	1	ng/mL	LC-MS/MS
Propranolol / 4-Hydroxypropranolol	Human Plasma	2.5	ng/mL	HPLC/FL
Propranolol Glucuronide	Human Urine	1	mcg/mL	HPLC/FL
Pseudoephedrine	Human Plasma	5	ng/mL	LC-MS/MS
Pyrazinamide	Human DBS	10	mcg/mL	LC-MS/MS
Quinidine	Human Plasma	10	ng/mL	HPLC/UV
Ranitidine	Human Plasma	5	ng/mL	HPLC/UV
Reserpine	Human Plasma	25	pg/mL	HPLC/FL
Resistin	Human Plasma	160	ng/mL	ELISA
Ribavirin	Human Plasma	5	ng/mL	LC-MS/MS
Rifampin	Human DBS	200	ng/mL	LC-MS/MS
Risperidone	Human Plasma	0.1	ng/mL	LC-MS/MS
Ropinirole	Human Plasma	20	pg/mL	LC-MS/MS
Ropinirole	Mini-Pig Plasma	20	pg/mL	LC-MS/MS
Rosuvastatin	Human Plasma	0.2	ng/mL	LC-MS/MS
Salicylic Acid	Plasma	0.7	mcg/mL	HPLC/FL
Salicylic Acid	Urine	9.2	mcg/mL	HPLC/FL

Validated Method List A- Z

Analyte	Matrix	LLOQ	Unit	Platform
Salicylic Acid	Human Plasma	25	ng/mL	HPLC/UV
Salicylic Acid	Human Urine	2.5	mcg/mL	HPLC/UV
Simvastatin / Simvastatin Hydroxy Acid	Human Plasma	50 / 50	pg/mL	LC-MS/MS
Spirolactone	Human Plasma	0.5	ng/mL	LC-MS/MS
Sumatriptan	Human Plasma	0.5	ng/mL	LC-MS/MS
Tacrolimus	Rat DBS	5	ng/mL	LC-MS/MS
Tacrolimus	Dog Whole Blood	0.1	ng/mL	LC-MS/MS
Tacrolimus	Human Whole Blood	0.5	ng/mL	LC-MS/MS
Thymus Activation-Regulated Chemokine (TARC)	Human Plasma	0.366	pg/mL	ECL
Temazepam	Human Plasma	20	ng/mL	LC-MS/MS
Tenofovir	Human Plasma	10	ng/mL	LC-MS/MS
Tenoxicam	Human Plasma	20	ng/mL	HPLC/UV
Terbinafine	Human Nail	200	mcg/g	LC-MS/MS
Terbinafine / N-Desmethylterbinafine	Human Plasma	40	pg/mL	LC-MS/MS
Testosterone (total)	Human Serum	5	ng/dL	RIA
Theophylline	Human Plasma	50	ng/mL	HPLC/UV
Theophylline	Human Plasma	0.2	mcg/mL	HPLC/UV
Theophylline	Human Serum	0.2	mcg/mL	HPLC/UV
Tizanidine	Human Plasma	100	pg/mL	LC-MS/MS
Tumor Necrosis Factor (TNF- α)	Human Plasma	0.31	pg/mL	ECL
Tumor Necrosis Factor (TNF- β)	Human Plasma	0.154	pg/mL	ECL
Tolbutamide / Carboxytolbutamide / Hydroxytolbutamide	Human Plasma	0.25 / 0.5 / 0.5	mcg/mL	HPLC/UV
Tolbutamide / Carboxytolbutamide / Hydroxytolbutamide	Human Urine	0.25 / 0.5 / 0.5	mcg/mL	HPLC/UV
Total Tau	Human CSF	30	pg/mL	ECL
Tramadol	Dog Plasma	2	ng/mL	LC-MS/MS
Tramadol / Acetaminophen	Human Plasma	2.5 / 100	ng/mL	LC-MS/MS
Tretinoin / Isotretinoin	Human Plasma	10 / 10	ng/mL	LC-MS/MS
Triamcinolone	Human Plasma	20	pg/mL	LC-MS/MS
Triamterene	Human Plasma	2	ng/mL	LC-MS/MS
Tyramine	Human Plasma	1	ng/mL	LC-MS/MS
Vascular Endothelial Growth Factor (VEGF)	Human Plasma	3.98	pg/mL	ECL
Valproic Acid	Human Plasma	0.5	mcg/mL	LC-MS/MS
Venlafaxine / O-Desmethylvenlafaxine	Human Plasma	2.5	ng/mL	LC-MS/MS
Vitamin B6	Human Plasma	50	ng/mL	LC-MS/MS
Vitamin E	Human Plasma	0.5	mcg/mL	HPLC/UV
Warfarin, (R)- and (S)-	Human Plasma	50	ng/mL	HPLC/FL
Xanthine	Human Urine	1	mcg/mL	HPLC/UV
Xanthine	Human Plasma	0.5	mcg/mL	HPLC/UV
Zolpidem	Human Plasma	0.5	ng/mL	LC-MS/MS
Zolmitriptan / N-Desmethylzolmitriptan	Human Plasma	0.1 / 0.1	ng/mL	LC-MS/MS
Zonisamide	Human Serum	50	ng/mL	HPLC/UV

Analyte	Matrix	LLOQ	Unit	Platform
Acetaminophen (APAP)	Human Plasma	0.1	mcg/mL	LC-MS/MS
Acetaminophen / Tramadol	Human Plasma	100 / 5	ng/mL	LC-MS/MS
Acetylsalicylic Acid / Salicylic Acid	Human Plasma	0.25 / 0.75	mcg/mL	HPLC/UV
Buprenorphine / Norbuprenorphine	Dog Plasma	100	pg/mL	LC-MS/MS
Buprenorphine / Norbuprenorphine	Human Plasma	50	pg/mL	LC-MS/MS
Buprenorphine / Norbuprenorphine	Rabbit Plasma	50	pg/mL	LC-MS/MS
Butorphanol	Human Plasma	20	pg/mL	LC-MS/MS
Codeine	Human Plasma	1	ng/mL	LC-MS/MS
Diclofenac	Human Plasma	5	ng/mL	LC-MS/MS
Flurbiprofen	Human Plasma	5	ng/mL	LC-MS/MS
Flurbiprofen, (R)- and (S)-	Human Plasma	0.25	mcg/mL	HPLC/FL
Flurbiprofen, (R)- and (S)-	Human Urine	0.5	mcg/mL	HPLC/FL
Hydrocodone	Human Plasma	0.1	ng/mL	LC-MS/MS
Hydromorphone	Dog Plasma	20	pg/mL	LC-MS/MS
Hydromorphone	Human Plasma	20	pg/mL	LC-MS/MS
Ibuprofen	Human Plasma	0.25	mcg/mL	LC-MS/MS
Ibuprofen	Human Plasma	25	ng/mL	LC-MS/MS
Ibuprofen	Human CSF	0.3	ng/mL	LC-MS/MS
Ibuprofen, (R)- and (S)-	Human Plasma	0.25	mcg/mL	HPLC/UV
Ibuprofen, (R)- and (S)-	Human Urine	2.5	mcg/mL	HPLC/FL
Indomethacin	Human Plasma	10	ng/mL	LC-MS/MS
Ketoprofen	Human Urine	1000	ng/mL	HPLC
Ketoprofen	Human Plasma	0.25	ng/mL	LC-MS/MS
Mefenamic Acid	Human Plasma	40	ng/mL	LC-MS/MS
Meloxicam	Human Plasma	10	ng/mL	LC-MS/MS
Morphine / Morphine-3-Glucuronide / Morphine-6-Glucuronide	Dog Plasma	0.5 / 5 / 2	ng/mL	LC-MS/MS
Morphine / Morphine-3-Glucuronide / Morphine-6-Glucuronide	Human Plasma	0.5 / 5 / 2	ng/mL	LC-MS/MS
Morphine / Morphine-3-Glucuronide / Morphine-6-Glucuronide	Ovine Plasma	0.5 / 5 / 2	ng/mL	LC-MS/MS
Naproxen	Human Plasma	0.25	mcg/mL	LC-MS/MS
Oxaprozin	Human Plasma	2	mcg/mL	HPLC/UV
Noroxycodone	Human Plasma	0.25	ng/mL	LC-MS/MS
Oxycodone / Noroxycodone / Oxymorphone	Human Plasma	0.25	ng/mL	LC-MS/MS
Oxymorphone	Human Plasma	0.25	ng/mL	LC-MS/MS
Pentazocine	Human Plasma	1	ng/mL	LC-MS/MS
Piroxicam	Human Plasma	50	ng/mL	HPLC/UV
Propoxyphene / Norpropoxyphene	Human Plasma	1	ng/mL	LC-MS/MS
Salicylic Acid	Plasma	0.7	mcg/mL	HPLC/FL
Salicylic Acid	Urine	9.2	mcg/mL	HPLC/FL
Salicyluric Acid	Human Plasma	25	ng/mL	HPLC/UV
Salicyluric Acid	Human Urine	2.5	mcg/mL	HPLC/UV

Analyte	Matrix	LLOQ	Unit	Platform
Tenoxicam	Human Plasma	20	ng/mL	HPLC/UV
Tramadol	Dog Plasma	2	ng/mL	LC-MS/MS
Tramadol / Acetaminophen	Human Plasma	2.5 / 100	ng/mL	LC-MS/MS

Analyte	Matrix	LLOQ	Unit	Platform
Alprazolam / α-Hydroxyalprazolam	Dog Plasma	0.5	ng/mL	LC-MS/MS
Aminosalicyclic Acid, 5-	Rat Plasma	10	ng/mL	LC-MS/MS
Atenolol, (R)- and (S)-	Rat Plasma	20 / 20	ng/mL	HPLC/FL
Benazepril/ Benazeprilat	Dog Plasma	0.1 / 0.5	ng/mL	LC-MS/MS
Buprenorphine / Norbuprenorphine	Dog Plasma	100	pg/mL	LC-MS/MS
Buprenorphine / Norbuprenorphine	Rabbit Plasma	50	pg/mL	LC-MS/MS
Buspiron / 1-PP	Dog Plasma	100	pg/mL	LC-MS/MS
Cimetidine	Dog Plasma	50	ng/mL	HPLC/UV
Ciprofloxacin	Cat Plasma	25	ng/mL	HPLC/FL
Cyclobenzaprine	Dog Plasma	0.1	ng/mL	LC-MS/MS
Diclofenac	Rat Plasma	10	ng/mL	HPLC/UV
Dyclonine	Dog Serum	1	ng/mL	LC-MS/MS
Femoxitine / N-Desmethylfemoxitine	Monkey Plasma	5	ng/mL	HPLC/FL
Fexofenadine	Mouse Plasma	25	ng/mL	LC-MS/MS
Fexofenadine	Rabbit Plasma	25	ng/mL	LC-MS/MS
Fexofenadine	Rat Plasma	25	ng/mL	LC-MS/MS
Granisetron	Dog Plasma	0.1	ng/mL	LC-MS/MS
Homocysteine	Dog Plasma	5	mcg/mL	LC-MS/MS
Homocysteine	Rat Plasma	5	mcg/mL	LC-MS/MS
Hydromorphone	Dog Plasma	20	pg/mL	LC-MS/MS
Hydromorphone	Dog Serum	20	pg/mL	LC-MS/MS
Hydroxymidazolam, α- / Hydroxymidazolam, 4-	Dog Plasma	2 / 2	ng/mL	LC-MS/MS
Hydroxymidazolam, α- / Hydroxymidazolam, 4-	Rat Plasma	2 / 2	ng/mL	LC-MS/MS
Levofloxacin	Rabbit Plasma	10	ng/mL	LC-MS/MS
Lidocaine	Dog Plasma	0.1	ng/mL	LC-MS/MS
Lidocaine	Dog Urine	0.1	ng/mL	LC-MS/MS
Lidocaine	Dog Tissues	10	ng/g	LC-MS/MS
Lidocaine	Rat Plasma	0.5	ng/mL	LC-MS/MS
Morphine / Morphine-3-Glucuronide / Morphine- 6-Glucuronide	Dog Plasma	0.5 / 5 / 2	ng/mL	LC-MS/MS
Morphine / Morphine-3-Glucuronide / Morphine- 6-Glucuronide	Ovine Plasma	0.5 / 5 / 2	ng/mL	LC-MS/MS
Ropinirole	Mini-Pig Plasma	20	pg/mL	LC-MS/MS
Tacrolimus	Dog Whole Blood	0.1	ng/mL	LC-MS/MS
Tramadol	Dog Plasma	2	ng/mL	LC-MS/MS

Analyte	Matrix	LLOQ	Unit	Platform
Acebutolol / Diacetolol	Human Plasma	5	ng/mL	HPLC/UV
Amiodarone / Desethylamiodarone	Human Plasma	10	ng/mL	LC-MS/MS
Amlodipine	Human Plasma	50	pg/mL	LC-MS/MS
Anipamil	Human Plasma	5	ng/mL	HPLC/FL
Atenolol	Human Plasma	10	ng/mL	LC-MS/MS
Atenolol	Human Urine	250	ng/mL	LC-MS/MS
Atenolol, (R)- and (S)-	Human Plasma	20	ng/mL	HPLC/FL
Atenolol, (R)- and (S)-	Rat Plasma	20	ng/mL	HPLC/FL
Benazepril / Benazeprilat	Dog Plasma	0.1 / 0.5	ng/mL	LC-MS/MS
Benazepril / Benazeprilat	Human Plasma	2 / 2	ng/mL	LC-MS/MS
Bucladesine	Human Plasma	1	ng/mL	LC-MS/MS
Digoxin	Human Plasma	0.1	ng/mL	LC-MS/MS
Diltiazem / N-Desmethyldiltiazem / Desacetyldiltiazem	Human Plasma	4 / 2 / 1	ng/mL	LC-MS/MS
Dipyridamole	Human Plasma	50	ng/mL	LC-MS/MS
Enalapril & Enalaprilat	Human Plasma	0.25	ng/mL	LC-MS/MS
Felodipine	Human Plasma	25	pg/mL	LC-MS/MS
Isradapine	Human Plasma	0.1	ng/mL	LC-MS/MS
Metoprolol	Human Plasma	1	ng/mL	LC-MS/MS
Metoprolol / Hydroxymetoprolol	Human Plasma	2.5	ng/mL	HPLC/FL
Metoprolol / Hydroxymetoprolol	Human Urine	1000	ng/mL	HPLC/FL
Nifedipine / NPO	Human Plasma	1	ng/mL	LC-MS/MS
Pindolol	Human Plasma	1	ng/mL	HPLC/UV
Propafenone / N-Despropylpropafenone- / 5- Hydroxypropafenone	Human Plasma	250	pg/mL	LC-MS/MS
Propranolol / 4-Hydroxypropranolol	Human Plasma	2.5	ng/mL	HPLC/FL
Propranolol Glucuronide	Human Urine	1	mcg/mL	HPLC/FL
Quinidine	Human Plasma	10	ng/mL	HPLC/UV
Reserpine	Human Plasma	25	pg/mL	HPLC/FL
Verapamil / Norverapamil	Plasma	2.5	ng/mL	HPLC/FL

Analyte	Matrix	LLOQ	Unit	Platform
Alprazolam	Human Plasma	0.5	ng/mL	LC-MS/MS
Alprazolam / α -Hydroxyalprazolam	Dog Plasma	0.5 / 0.5	ng/mL	LC-MS/MS
Alprazolam / α -Hydroxyalprazolam	Human Plasma	0.5 / 0.5	ng/mL	LC-MS/MS
Amitriptyline	Human Plasma	200	pg/mL	LC-MS/MS
Aprepitant	Human Plasma	10	ng/mL	LC-MS/MS
Atomoxetine	Human Plasma	10	ng/mL	LC-MS/MS
Buspirone / 1-PP	Dog Plasma	100	pg/mL	LC-MS/MS
Buspirone / 1-PP	Human Plasma	100	pg/mL	LC-MS/MS
Butalbital	Human Plasma	0.1	mcg/mL	HPLC/UV
Caffeine	Human Plasma	0.05	mcg/mL	HPLC/UV
Carbamazepine	Human Plasma	0.05	mcg/mL	HPLC/UV
Carisbamate	Human Plasma	5	ng/mL	LC-MS/MS
Chlorzoxazone	Human Plasma	20	ng/mL	LC-MS/MS
Citalopram	Plasma	100	pg/mL	LC-MS/MS
Clonazepam / 7-Aminoclonazepam	Human Plasma	0.1 / 0.2	ng/mL	LC-MS/MS
Cyclobenzaprine	Dog Plasma	0.1	ng/mL	LC-MS/MS
Cyclobenzaprine	Human Plasma	0.2	ng/mL	LC-MS/MS
Doxepin / Nordoxepin	Human Urine	0.25 / 0.20	ng/mL	LC-MS/MS
Femoxetine / N-Desmethylfemoxetine	Human Plasma	5	ng/mL	HPLC/FL
Femoxetine / N-Desmethylfemoxetine	Monkey Plasma	5	ng/mL	HPLC/FL
Haloperidol	Human Plasma	25	pg/mL	LC-MS/MS
Hydroxymephenytoin, (R)-4- / Hydroxymephenytoin, (S)-4-	Human Plasma	10	ng/mL	LC-MS/MS
Hydroxymephenytoin, (R)-4- / Hydroxymephenytoin, (S)-4-	Human Saliva	10	ng/mL	LC-MS/MS
Hydroxymephenytoin, (R)-4- / Hydroxymephenytoin, (S)-4-	Human Urine	0.1	mcg/mL	LC-MS/MS
Hydroxymidazolam, α - / Hydroxymidazolam, 4-	Dog Plasma	2 / 2	ng/mL	LC-MS/MS
Hydroxymidazolam, α - / Hydroxymidazolam, 4-	Rat Plasma	2 / 2	ng/mL	LC-MS/MS
Imipramine / Desipramine	Human Plasma	0.1	ng/mL	LC-MS/MS
Lorazepam	Human Plasma	0.2	ng/mL	LC-MS/MS
Memantine	Human Plasma	0.5	ng/mL	LC-MS/MS
Memantine N-Glucuronide	Human Plasma	0.2	ng/mL	LC-MS/MS
Mephenytoin, (R)- / Mephenytoin, (S)-	Human Plasma	10	ng/mL	LC-MS/MS
Mephenytoin, (R)- / Mephenytoin, (S)-	Human Saliva	10	ng/mL	LC-MS/MS
Mephenytoin, (R)- / Mephenytoin, (S)-	Human Urine	0.1	mcg/mL	LC-MS/MS
Methocarbamol	Human Plasma	0.1	mcg/mL	HPLC/FL
Methylphenidate	Human Plasma	0.1	ng/mL	LC-MS/MS
Midazolam / 1-Hydroxymidazolam / 4- Hydroxymidazolam	Human Urine	10 / 2 / 2	ng/mL	LC-MS/MS
Midazolam / α -Hydroxymidazolam	Human Plasma	0.5 / 0.5	ng/mL	LC-MS/MS
Midazolam / α -Hydroxymidazolam	Human Urine	20 / 0.5	ng/mL	LC-MS/MS
Molindone	Human Plasma	0.25	ng/mL	LC-MS/MS
Olanzapine	Human Plasma	0.1	ng/mL	LC-MS/MS

Analyte	Matrix	LLOQ	Unit	Platform
Ondansetron	Human Plasma	0.5	ng/mL	LC-MS/MS
Paroxetine	Human Plasma	0.2	ng/mL	LC-MS/MS
Phenytoin	Human Plasma	0.25	mcg/mL	HPLC/UV
Phenytoin	Human Urine	1	mcg/mL	HPLC/UV
Phenytoin / Phenylhydantoin / Phenobarbitol (Free Assay)	Human Urine	0.1	mcg/mL	HPLC/UV
Primidone	Human Plasma	25	ng/mL	LC-MS/MS
Risperidone	Human Plasma	0.1	ng/mL	LC-MS/MS
Ropinirole	Human Plasma	20	pg/mL	LC-MS/MS
Ropinirole	Mini-Pig Plasma	20	pg/mL	LC-MS/MS
Sumatriptan	Human Plasma	0.5	ng/mL	LC-MS/MS
Temazepam	Human Plasma	20	ng/mL	LC-MS/MS
Tizanidine	Human Plasma	0.1	ng/mL	LC-MS/MS
Topiramate	Plasma	10	ng/mL	LC-MS/MS
Valproic Acid	Human Plasma	0.5	mcg/mL	LC-MS/MS
Venlafaxine / O-Desmethylvenlafaxine	Human Plasma	2.5	ng/ml	LC-MS/MS
Zolpidem	Human Plasma	0.5	ng/mL	LC-MS/MS
Zolmitriptan / N-Desmethylzolmitriptan	Human Plasma	0.1 / 0.1	ng/mL	LC-MS/MS
Zonisamide	Human Serum	50	ng/mL	HPLC/UV

Analyte	Matrix	LLOQ	Unit	Platform
Acetaminophen (APAP)	Human Plasma	0.1	mcg/mL	LC-MS/MS
Acetylsalicylic Acid / Salicylic Acid	Human Plasma	25 / 50	ng/mL	HPLC/UV
Brompheniramine / Chlorpheniramine / Pseudoephedrine	Human Plasma	0.5 / 0.5 / 5	ng/mL	LC-MS/MS
Chlorpheniramine	Human Plasma	0.5	ng/mL	LC-MS/MS
Dextromethorphan	Human Plasma	50	pg/mL	LC-MS/MS
Dextromethorphan / 3-Hydroxymorphinan / 4-Methoxymorphinan	Human Plasma	10	ng/mL	HPLC/FL
Dextromethorphan / 3-Hydroxymorphinan / 4-Methoxymorphinan	Human Urine	0.25	mcg/mL	HPLC/FL
Dextrorphan	Human Plasma	10	ng/mL	HPLC/FL
Dextrorphan	Human Urine	250	ng/mL	HPLC/FL
Diphenhydramine	Human Plasma	1	ng/mL	LC-MS/MS
Fexofenadine	Human Plasma	1	ng/mL	LC-MS/MS
Guaifenesin / Naproxen	Human Plasma	10 / 250	ng/mL	LC-MS/MS
Ibuprofen	Human Plasma	0.25	mcg/mL	LC-MS/MS
Naproxen	Human Plasma	250	ng/mL	LC-MS/MS
Phenylephrine	Human Plasma	0.5	ng/mL	LC-MS/MS
Phenylephrine	Human Urine	5	ng/mL	LC-MS/MS

1A2				
Cimetidine	Human Plasma	50	ng/mL	Inhibitor
Ciprofloxacin	Human Serum	10	ng/mL	Inhibitor
Phenacetin / Acetaminophen †	<i>in vitro</i>			Substrate
Rifampin	Human DBS	200	ng/mL	Inducer
Theophylline *	Human Plasma	50	ng/mL	Inhibitor

2A6				
Coumarin / 7-Hydroxycoumarin †	<i>in vitro</i>			Substrate
Rifampin	Human DBS	200	ng/mL	Inhibitor

2B6				
Bupropion / Hydroxybupropion	<i>in vitro</i>			Substrate
Efavirenz	Human Plasma	50	ng/mL	Substrate
Efavirenz / 8-Hydroxyefavirenz	<i>in vitro</i>			Substrate

2C8				
Amodiaquine / N-Desethylamodiaquine	<i>in vitro</i>			Substrate
Gemfibrozil	Human Plasma	0.5	mcg/mL	Inhibitor
Paclitaxel / 6 α -Hydroxypaclitaxel	<i>in vitro</i>			Substrate

2C9				
Amiodarone / Desethylamiodarone	Human Plasma	10	ng/mL	Inhibitor
Carbamazepine	Human Plasma	0.05	mcg/mL	Inducer
Cimetidine	Human Plasma	50	ng/mL	Inhibitor
Diclofenac / 4'-Hydroxydiclofenac	<i>in vitro</i>			Substrate
Phenytoin	Human Plasma	0.25	mcg/mL	Inducer
Rifampin	Human DBS	200	ng/mL	Inducer
Tolbutamide / 4'-Hydroxytolbutamide	Human Plasma	0.25 / 0.5	ng/mL	

2C19				
Carbamazepine	Human Plasma	0.05	mcg/mL	Inducer
Cimetidine	Human Plasma	50	ng/mL	Inhibitor
Esomeprazole	Human Plasma	0.25	ng/mL	Substrate
Lansoprazole	Human Plasma	0.25	ng/mL	Substrate
Mephenytoin, (S-) / 4'-Hydroxy-(S)-Mephenytoin †	<i>in vitro</i>			Substrate
Omeprazole	Human Plasma	5	ng/mL	Inhibitor / Substrate
Pantoprazole	Human Plasma	10	ng/mL	Substrate
Phenytoin	Human Plasma	0.25	mcg/mL	Inducer

2D6				
Atomoxetine	Human Plasma	10	ng/mL	Substrate
Dextromethorphan / Dextrorphan	Human Plasma	0.05 / 10	ng/mL	Substrate
Dextromethorphan / Dextrorphan †	<i>in vitro</i>			Substrate
Imipramine / Desipramine *	Human Plasma	0.1	ng/mL	Inhibitor
Paroxetine	Human Plasma	100	pg/mL	Inhibitor
Quinidine	Human Plasma	10	ng/mL	Inhibitor
2E1				
Chlorzoxasone / 6-Hydroxychlorzoxasone †	<i>in vitro</i>			Substrate
2J2				
Ebastine	Human Plasma	10	ng/mL	Substrate
Ebastine	<i>in vitro</i>			Substrate
3A4 / 3A5				
Atorvastatin / p- and o-Hydroxyatorvastatin	Human Plasma	0.2 / 0.2 / 0.2	ng/mL	Substrate
Atorvastatin / o-Hydroxyatorvastatin	<i>in vitro</i>			Substrate
Bupirone / 1-PP	Human Plasma	100	pg/mL	Substrate
Carbamazepine	Human Plasma	0.05	mcg/mL	Inducer
Cimetidine	Human Plasma	50	ng/mL	Inhibitor
Dexamethasone	Human Plasma	0.25	ng/mL	Inducer
Diltiazem / N-Desmethyl- / Desacetyl-	Human Plasma	4 / 2 / 1	ng/mL	Inhibitor
Felodipine	Human Plasma	1/25/1900	pg/mL	Substrate
Imipramine / Desipramine	Human Plasma	0.1	ng/mL	Inhibitor
Ketoconazole	Human Plasma	50	ng/mL	Inducer
Midazolam / α -Hydroxymidazolam	Human Plasma	0.5 / 0.5	ng/mL	Substrate
Midazolam / α -Hydroxymidazolam †	<i>in vitro</i>			Substrate
Nifedipine	<i>in vitro</i>			Substrate
Phenytoin	Human Plasma	0.25	mcg/mL	Inducer
Rifampin *	Human DBS	200	ng/mL	Inducer
Simvastatin / Simvastatin Hydroxy Acid *	Human Plasma	50 / 50	pg/mL	Inhibitor
Testosterone / 6- β -Hydroxytestosterone †	<i>in vitro</i>			Substrate
Venlafaxine / O-Desmethylvenlafaxine	Human Plasma	2.5	ng/mL	Inhibitor

Analyte	Matrix	LLOQ	Unit	Platform
Allopurinol / Oxypurinol	Human Plasma	50 / 100	ng/mL	LC-MS/MS
Atorvastatin / p- and o-Hydroxyatorvastatin	Human Plasma	0.2 / 0.2 / 0.2	ng/mL	LC-MS/MS
Esomeprazole	Human Plasma	0.25	ng/mL	LC-MS/MS
Fenofibric Acid	Human Plasma	20	ng/mL	LC-MS/MS
Gemfibrozil	Human Plasma	0.5	mcg/mL	HPLC/UV
Gliclazide	Human Plasma	100	ng/mL	HPLC/UV
Metformin	Human Plasma	20	ng/mL	LC-MS/MS
Methylprednisolone	Human Plasma	2.5	ng/mL	LC-MS/MS
Lansoprazole	Human Plasma	0.25	ng/mL	LC-MS/MS
Omeprazole	Human Plasma	5	ng/mL	LC-MS/MS
Oxandrolone	Human Plasma	0.25	ng/mL	LC-MS/MS
Paraxanthine	Human Plasma	25	ng/mL	HPLC/UV
Simvastatin / Simvastatin Hydroxy Acid	Human Plasma	50 / 50	pg/mL	LC-MS/MS

Analyte	Matrix	LLOQ	Unit	Platform
Alprazolam / α-Hydroxyalprazolam	Human Plasma	0.5	ng/mL	LC-MS/MS
Buprenorphine / Norbuprenorphine	Human Plasma	50	ng/mL	LC-MS/MS
Codeine	Human Plasma	1	ng/mL	LC-MS/MS
Hydrocodone	Human Plasma	0.1	ng/mL	LC-MS/MS
Hydromorphone (Anticoagulant: K₂EDTA)	Human Plasma	40	pg/mL	LC-MS/MS
Hydromorphone (Anticoagulant: Sodium Heparin)	Human Plasma	75	pg/mL	LC-MS/MS
Lorazepam	Human Plasma	0.2	ng/mL	LC-MS/MS
Midazolam / α-Hydroxymidazolam	Human Plasma	0.5	ng/mL	LC-MS/MS
Methylphenidate	Human Plasma	0.1	ng/mL	LC-MS/MS
Morphine / Morphine-3-β-D-Glucuronide / Morphine-6-β-D-Glucuronide	Human Plasma	0.5 / 5 / 2	ng/mL	LC-MS/MS
Noroxycodone / Oxycodone	Human Plasma	0.25	ng/mL	LC-MS/MS
Oxymorphone	Human Plasma	0.25	ng/mL	LC-MS/MS
Zolpidem	Human Plasma	0.5	ng/mL	LC-MS/MS

Analyte	Matrix	LLOQ	Unit	Platform
Acyclovir	Human Plasma	20	ng/mL	HPLC/FL
Acyclovir	Human Urine	1	mcg/mL	HPLC/FL
Amikacin	Human Serum	0.15	mcg/mL	LC-MS/MS
Amikacin	Human Urine	0.5	mcg/mL	LC-MS/MS
Amoxicillin	Plasma	0.25	mcg/mL	HPLC/UV
Ampicillin	Plasma	0.25	mcg/mL	HPLC/UV
Azithromycin	Human Plasma	2	ng/mL	LC-MS/MS
Cefaclor	Plasma	0.5	mcg/mL	HPLC/UV
Cefadroxil	Plasma	0.25	mcg/mL	HPLC/UV
Cefdinir	Plasma	25	ng/mL	HPLC/UV
Cefixime	Plasma	50	ng/mL	HPLC/UV
Cefprozil	Plasma	0.25	mcg/mL	HPLC/UV
Ciprofloxacin	Cat Plasma	25	ng/mL	HPLC/FL
Ciprofloxacin	Human Serum	10	ng/mL	LC-MS/MS
Clarithromycin	Human Plasma	10	ng/mL	LC-MS/MS
Clavulanic Acid	Plasma	10	ng/mL	HPLC/UV
Clindamycin	Plasma	100	ng/mL	LC-MS/MS
Clotrimazole / Ketoconazole	Human Plasma	5 / 50	ng/mL	LC-MS/MS
Doxycycline	Plasma	50	ng/mL	HPLC/UV
Erythromycin A	Plasma	0.1	mcg/mL	HPLC/EC
Fluconazole	Plasma	50	ng/mL	HPLC/UV
Efavirenz	Human Plasma	50	ng/mL	LC-MS/MS
Ethambutol	Human DBS	100	ng/mL	LC/MS/MS
Ibuprofen	Human Plasma	0.25	mcg/mL	LC-MS/MS
Interferon β 1 (IFN- β 1)	Human Plasma	2	pg/mL	ELISA
Interferon- γ (IFN- γ)	Human Plasma	15	pg/mL	ELISA
Ketoconazole	Human Plasma	50	ng/mL	HPLC/FL
Ketoconazole / Clotrimazole	Human Plasma	50 / 5	ng/mL	LC-MS/MS
Levofloxacin	Rabbit Plasma	0.2	mcg/mL	LC-MS/MS
Moxifloxacin	Human DBS	100	ng/mL	LC-MS/MS
Moxifloxacin	Human Plasma	20	ng/mL	LC-MS/MS
Naproxen	Human Plasma	0.5	mcg/mL	HPLC/FL
Nitrofurantoin	Human Plasma	5	ng/mL	HPLC/UV
Nitrofurantoin	Human Urine	2	mcg/mL	HPLC/UV
Pyrazinamide	Human DBS	10	mcg/mL	LC-MS/MS
Ribavirin	Human Plasma	5	ng/mL	LC-MS/MS
Rifampin	Human DBS	200	ng/mL	LC-MS/MS
Tenofovir	Human Plasma	10	ng/mL	LC-MS/MS
Terbinafine	Human Nail	200	mcg/g	LC-MS/MS
Terbinafine / N-Desmethylterbinafine	Human Plasma	40	pg/mL	LC-MS/MS

Analyte	Matrix	LLOQ	Unit	Platform
Azacytidine, 5-	Human Plasma	10	ng/mL	LC-MS/MS
Bicalutamide	Human Plasma	2.5	ng/mL	LC-MS/MS
Cytarabine (Ara-C)	Human Plasma	20	ng/mL	LC-MS/MS
Doxorubicin	Human Urine	1.5	ng/mL	LC-MS/MS
Doxorubicin / Doxorubicinol	Human Plasma	0.5 / 0.5	ng/mL	LC-MS/MS
Gemcitabine	Human Plasma	40	ng/mL	HPLC/UV
Gemcitabine	Human Urine	40	ng/mL	HPLC/UV
Melphalan	Human Plasma	25	ng/mL	LC-MS/MS
Paclitaxel	Human Urine	5	ng/mL	LC-MS/MS
Paclitaxel	Human Plasma	100	pg/mL	LC-MS/MS
Paclitaxel	Human Plasma	1	ng/mL	LC-MS/MS
Tretinoin	Human Plasma	1	ng/mL	LC-MS/MS

Fully Qualified 54-Plex: Alphabetical

Analyte	Matrix	LODD (pg/mL)	LLOQ – ULOQ (pg/mL)	Platform
C-reactive Protein (CRP)	Human Plasma	1.33	52.70 - 49,600	ECL
Eotaxin	Human Plasma	3.26	5.86 - 1,120	ECL
Eotaxin-3	Human Plasma	1.77	4.85 - 3,750	ECL
Fibroblast Growth Factor, Basic (bFGF)	Human Plasma	0.09	0.45 - 1,780	ECL
Fms-like Tyrosine Kinase 1 (Flt-1) Alternative name: VEGFR-1	Human Plasma	0.90	8.79 - 1,780	ECL
Granulocyte Macrophage – Colony Stimulating Factor (GM-CSF)	Human Plasma	0.14	0.243 - 750	ECL
Intercellular Adhesion Molecule 1 (ICAM-1)	Human Plasma	1.03	13.20 - 32,700	ECL
Interferon-γ (IFN-γ)	Human Plasma	0.20	1.33 - 938	ECL
Interleukin-1α (IL-1α)	Human Plasma	0.09	0.396 - 278	ECL
Interleukin-1 Receptor Antagonist (IL-1RA)	Human Plasma	0.70	0.70 - 650	ECL
Interleukin-1β (IL-1β)	Human Plasma	0.04	0.46 - 375	ECL
Interleukin-2 (IL-2)	Human Plasma	0.09	0.32 - 938	ECL
Interleukin-3 (IL-3)	Human Plasma	2.37	13.40 - 1,950	ECL
Interleukin-4 (IL-4)	Human Plasma	0.02	0.06 - 158	ECL
Interleukin-5 (IL-5)	Human Plasma	0.22	3.56 - 562	ECL
Interleukin-6 (IL-6)	Human Plasma	0.06	0.63 - 488	ECL
Interleukin-7 (IL-7)	Human Plasma	0.21	0.21 - 563	ECL
Interleukin-8 (IL-8)	Human Plasma	0.04	0.49 - 375	ECL
Interleukin-8 High Abundance (HA)	Human Plasma	95.6	1186 - 43,400	ECL
Interleukin-9 (IL-9)	Human Plasma	0.35	0.35 - 975	ECL
Interleukin-10 (IL-10)	Human Plasma	0.03	0.31 - 233	ECL
Interleukin-12/IL-23p40 (IL-12/IL-23p40)	Human Plasma	0.39	0.786 - 2,250	ECL
Interleukin-12 (IL-12p70)	Human Plasma	0.11	0.40 - 315	ECL
Interleukin-13 (IL-13)	Human Plasma	0.24	2.45 - 353	ECL
Interleukin-15 (IL-15)	Human Plasma	0.19	0.19 - 525	ECL
Interleukin-16 (IL-16)	Human Plasma	2.47	2.47 - 1,870	ECL
Interleukin-17A (IL-17A)	Human Plasma	0.74	1.47 - 3,650	ECL
Interleukin-17A assay generation B (IL-17A GEN B)	Human Plasma	0.41	2.67 - 1,950	ECL
Interleukin-17A/F (IL-17A/F)	Human Plasma	0.93	0.93 - 1,950	ECL
Interleukin-17B (IL-17B)	Human Plasma	0.19	0.34 - 1,040	ECL
Interleukin-17C (IL-17C)	Human Plasma	0.68	2.44 - 1,620	ECL
Interleukin-17D (IL-17D)	Human Plasma	1.77	1.77 - 5,200	ECL
Interleukin-21 (IL-21)	Human Plasma	0.25	0.25 - 650	ECL
Interleukin-22 (IL-22)	Human Plasma	0.27	0.55 - 325	ECL
Interleukin-23 (IL-23)	Human Plasma	0.27	1.12 - 3,250	ECL
Interleukin-27 (IL-27)	Human Plasma	4.20	66.80 - 13,000	ECL

Fully Qualified 54-Plex: Alphabetical

Analyte	Matrix	LLOD	LLOQ – ULOQ (pg/mL)	Platform
Interleukin-31 (IL-31)	Human Plasma	0.22	0.22 - 650	ECL
Interferon γ - Inducible Protein -10 (IP-10)	Human Plasma	0.37	150 - 500	ECL
Monocyte Chemotactic Protein 1 (MCP-1)	Human Plasma	0.09	1.09 - 375	ECL
Monocyte Chemotactic Protein 4 (MCP-4)	Human Plasma	9.41	9.41 - 469	ECL
Macrophage-Derived Chemokine (MDC)	Human Plasma	1.22	10.4 - 7,500	ECL
Macrophage Inflammatory Protein (MIP-1α)	Human Plasma	0.99	0.99 - 743	ECL
Macrophage Inflammatory Protein (MIP-1β)	Human Plasma	0.37	3.68 - 750	ECL
Macrophage Inflammatory Protein-3α (MIP-3α)	Human Plasma	0.50	0.50 - 325	ECL
Phosphatidylinositol Glycan Anchor Biosynthesis, class F (PIGF)	Human Plasma	NA	N/A	ECL
Serum Amyloid A (SAA)	Human Plasma	10.90	54.20 - 138,000	ECL
Thymus Activation-Regulated Chemokine (TARC)	Human Plasma	0.22	0.37 - 1,120	ECL
Tyrosine Kinase 2 (Tie-2)	Human Plasma	31.30	72.30 - 63,400	ECL
Tumor Necrosis Factor (TNF-α)	Human Plasma	0.04	0.31 - 248	ECL
Tumor Necrosis Factor (TNF-β)	Human Plasma	0.05	0.154 - 458	ECL
Thymic Stromal Lymphopoietin (TSLP)	Human Plasma	0.06	0.13 - 325	ECL
Vascular Cell Adhesion Molecule 1 (VCAM-1)	Human Plasma	6.00	13.90 - 32,000	ECL
Vascular Endothelial Growth Factor (VEGF)	Human Plasma	0.46	0.46 - 784	ECL
Vascular Endothelial Growth Factor (VEGF)	Human Plasma	0.46	0.46 - 784	ECL
Vascular Endothelial Growth Factor C (VEGF-C)	Human Plasma	9.91	20.80 - 17,500	ECL
Vascular Endothelial Growth Factor D (VEGF-D)	Human Plasma	4.36	5.66 - 18,800	ECL

Qualified Method List

Large Molecule New Methods



Fully Qualified 54-Plex: By Panel

Chemokine Panel 1 Human Kit (10-plex)

Analyte	Matrix	LLOD (pg/mL)	LLOQ-ULOQ (pg/mL)	Platform
Eotaxin	Human Plasma	3.26	5.86 - 1,120	ECL
Eotaxin-3	Human Plasma	1.77	4.85 - 3,750	ECL
IL-8 (HA)	Human Plasma	95.6	1186 - 43,400	ECL
Interferon γ - Inducible Protein -10 (IP-10)	Human Plasma	0.37	150 - 500	ECL
Monocyte Chemotactic Protein 1 (MCP-1)	Human Plasma	0.09	1.09 - 375	ECL
Monocyte Chemotactic Protein 4 (MCP-4)	Human Plasma	9.41	9.41 - 469	ECL
Macrophage-Derived Chemokine (MDC)	Human Plasma	1.22	10.4 - 7,500	ECL
Macrophage Inflammatory Protein (MIP-1 β)	Human Plasma	0.37	3.68 - 750	ECL
Macrophage Inflammatory Protein (MIP-1 α)	Human Plasma	0.99	0.99 - 743	ECL
Thymus Activation-Regulated Chemokine (TARC)	Human Plasma	0.22	0.37 - 1,120	ECL

Cytokine Panel 1 Human Kit (10-plex)

Analyte	Matrix	LLOD (pg/mL)	LLOQ-ULOQ (pg/mL)	Platform
Granulocyte Macrophage- Colony Stimulating Factor (GM-CSF)	Human Plasma	0.14	0.243 - 750	ECL
Interleukin-12 (IL-12/IL-23p40)	Human Plasma	0.39	0.786 - 2,250	ECL
Interleukin-15 (IL-15)	Human Plasma	0.19	0.19 - 525	ECL
Interleukin-16 (IL-16)	Human Plasma	2.47	2.47 - 1,870	ECL
Interleukin-17A (IL-17A)	Human Plasma	0.74	1.47 - 3,650	ECL
Interleukin-1 α (IL-1 α)	Human Plasma	0.09	0.396 - 278	ECL
Interleukin-5 (IL-5)	Human Plasma	0.22	3.56 - 562	ECL
Interleukin-7 (IL-7)	Human Plasma	0.21	0.21 - 563	ECL
Tumor Necrosis Factor (TNF- β)	Human Plasma	0.05	0.154 - 458	ECL
Vascular Endothelial Growth Factor (VEGF)	Human Plasma	0.46	0.46 - 784	ECL

Proinflammatory Panel Human Kit (10-plex)

Analyte	Matrix	LLOD (pg/mL)	LLOQ-ULOQ (pg/mL)	Platform
Interferon- γ (INF- γ)	Human Plasma	0.20	1.33 - 938	ECL
Interleukin-10 (IL-10)	Human Plasma	0.03	0.31 - 233	ECL
Interleukin-12 (IL-12p70)	Human Plasma	0.11	0.40 - 315	ECL
Interleukin-13 (IL-13)	Human Plasma	0.24	2.45 - 353	ECL
Interleukin-1 β (IL-1 β)	Human Plasma	0.04	0.46 - 375	ECL
Interleukin-2 (IL-2)	Human Plasma	0.09	0.32 - 938	ECL
Interleukin-4 (IL-4)	Human Plasma	0.02	0.06 - 158	ECL
Interleukin-6 (IL-6)	Human Plasma	0.06	0.63 - 488	ECL
Interleukin-8 (IL-8)	Human Plasma	0.04	0.49 - 375	ECL
Tumor Necrosis Factor (TNF- α)	Human Plasma	0.04	0.31 - 248	ECL

Fully Qualified 54-Plex: By Panel

Angiogenesis Panel (7-plex)

Analyte	Matrix	LLOD (pg/mL)	LLOQ-ULOQ (pg/mL)	Platform
Vascular Endothelial Growth Factor (VEGF)	Human Plasma	0.46	0.46 - 784	ECL
Fms-like Tyrosine Kinase 1 (Flt-1)	Human Plasma	0.90	8.79 - 1,780	ECL
Phosphatidylinositol Glycan Anchor Biosynthesis, class F (PIGF)	Human Plasma	NA	N/A	ECL
Tyrosine Kinase 2 (Tie-2)	Human Plasma	31.30	72.30 - 63,400	ECL
Vascular Endothelial Growth Factor C (VEGF-C)	Human Plasma	9.91	20.80 - 17,500	ECL
Vascular Endothelial Growth Factor D (VEGF-D)	Human Plasma	4.36	5.66 - 18,800	ECL
Basic Fibroblast Growth Factor (bFGF)	Human Plasma	0.09	0.45 - 1,780	ECL

Vascular Injury Panel (4-plex)

Analyte	Matrix	LLOD (pg/mL)	LLOQ-ULOQ (pg/mL)	Platform
C-reactive Protein (CRP)	Human Plasma	1.33	52.70 - 49,600	ECL
Intercellular Adhesion Molecule 1 (ICAM-1)	Human Plasma	1.03	13.20 - 32,700	ECL
Serum Amyloid A (SAA)	Human Plasma	10.90	54.20 - 138,000	ECL
Vascular Cell Adhesion Molecule 1 (VCAM-1)	Human Plasma	6.00	13.90 - 32,000	ECL

Cytokine Panel 2 (8-plex)

Analyte	Matrix	LLOD (pg/mL)	LLOQ-ULOQ (pg/mL)	Platform
Interleukin-17A/F (IL-17A/F)	Human Plasma	0.93	0.93 - 1,950	ECL
Interleukin-17C (IL-17C)	Human Plasma	0.68	2.44 - 1,620	ECL
Interleukin-1 Receptor Antagonist (IL-1RA)	Human Plasma	0.70	0.70 - 650	ECL
Interleukin-9 (IL-9)	Human Plasma	0.35	0.35 - 975	ECL
Interleukin-17B (IL-17B)	Human Plasma	0.19	0.34 - 1,040	ECL
Interleukin-17D (IL-17D)	Human Plasma	1.77	1.77 - 5,200	ECL
Interleukin-3 (IL-3)	Human Plasma	2.37	13.40 - 1,950	ECL
Thymic Stromal Lymphopoietin (TSLP)	Human Plasma	0.06	0.13 - 325	ECL

TH17 Panel (7-Plex)

Analyte	Matrix	LLOD (pg/mL)	LLOQ-ULOQ (pg/mL)	Platform
Interleukin-17A assay generation B (IL-17A GEN B)	Human Plasma	0.41	2.67 - 1,950	ECL
Interleukin-21 (IL-21)	Human Plasma	0.25	0.25 - 650	ECL
Interleukin-22 (IL-22)	Human Plasma	0.27	0.55 - 325	ECL
Interleukin-23 (IL-23)	Human Plasma	0.27	1.12 - 3,250	ECL
Interleukin-27 (IL-27)	Human Plasma	4.20	66.80 - 13,000	ECL
Interleukin-31 (IL-31)	Human Plasma	0.22	0.22 - 650	ECL
Macrophage Inflammatory Protein-3 α (MIP-3 α)	Human Plasma	0.50	0.50 - 325	ECL

Qualified Flow Cytometry Panels

Preclinical

Panel Name	Analyte
Rat TBNK Panel	CD 3, CD45RA, CD161a, CD45

Clinical

Panel Name	Analyte
Immune Monitoring Basic Panel	CD16, CD56, CD19, CD14, CD4, CD8, CD3, CD45
Immune Monitoring T Cell Subsets Panel	CD45RA, CCR7, CD28, PD1, CD27, CD4, CD8, CD3, CD57, CD45
Immune Monitoring T Cell Receptors (TCR)	TCR $\gamma\delta$, TCR $\alpha\beta$, HLA-DR, TCR $\delta 1$, CD4, CD8, CD2, TCR V $\delta 2$, CD 45
Immune Monitoring B Cell Panel	IgD, CD21, CD19, CD27, CD24, CD38, IgM, CD45
Immune Monitoring Dendritic Cell Panel	CD16, Lin (CD3/CD19/CD20/CD14/CD56), CD1c, CD11c, Clec9A, CD123, HLA-DR, CD45
Multiple Myeloma (MM) Panel	CD19, CD38, CD45, CD48, CD56, CD117, CD138 and intracellular kappa and lambda
Chronic Lymphocytic Leukemia (CLL) Panel	CD5, CD10, CD19, CD20, CD23, CD43, CD45, sig, and cyclin D1
Acute lymphoblastic leukemia (ALL) Panel	CD2, CD4, CD5, CD7, CD8, CD10, CD19, CD79, and TdT

30 markers
 Absolute counts
 4 Anti-coagulant : K(2)EDTA, NaHEPARIN, ACD, BCT
 14 day stability

Analyte	Matrix	LLOQ	Unit	Platform
Acid Glycoprotein, α_1	Human Plasma	3.5	ng/mL	ELISA
Adiponectin	Human Serum	0.8	ng/mL	ELISA
Amyloid Beta 38 (Aβ-38)	Human CSF	60	pg/mL	ECL
Amyloid Beta 40 (Aβ-40)	Human CSF	25	pg/mL	ECL
Amyloid Beta 42 (Aβ-42)	Human CSF	4	pg/mL	ECL
Cluster of Differentiation 14 (CD-14)	Human Plasma	100	pg/mL	ELISA
Cortisol	Human Plasma	40.4	ng/mL	LC-MS/MS
Cortisone	Human Plasma	5	ng/mL	HPLC/UV
Deoxycholic Acid	Human Plasma	10	ng/mL	LC-MS/MS
Ghrelin	Human Serum	94	pg/mL	ELISA
Ghrelin Active	Human Plasma	100	pg/mL	ELISA
Ghrelin Total	Human Plasma	200	pg/mL	ELISA
Interferon β1 (IFN-β1)	Human Plasma	2	pg/mL	ELISA
Hepatocyte Growth Factor (HGF)	Human Plasma	400	pg/mL	ELISA
Homocysteine	Dog Plasma	5	mcg/mL	LC-MS/MS
Homocysteine	Rat Plasma	5	mcg/mL	LC-MS/MS
Methylnicotinamide	Human Plasma	10	ng/mL	LC-MS/MS
Macrophage Inflammatory Protein (MIP-1α)	Human Plasma	3.68	pg/mL	ECL
Macrophage Inflammatory Protein (MIP-1β)	Human Plasma	0.99	pg/mL	ECL
Resistin	Human Plasma	160	ng/mL	ELISA
Total Tau	Human CSF	30	pg/mL	ECL
Tyramine	Human Plasma	1	ng/mL	LC-MS/MS