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The logo for SGS, consisting of the letters 'SGS' in a bold, sans-serif font. A vertical orange line is positioned to the right of the 'S', and a horizontal orange line is positioned below the 'S'.

INTRODUCTION

Although the majority of the methods listed here are SGS property, some of them were implemented for a particular sponsor to whom the methods belong, or need to be revalidated to be in accordance with current regulations. These methods are not immediately available for use but have been included in this document as an indication of our large bioanalytical experience. The assays can be validated upon request.

Note: newly validated assays are highlighted.

MATRIX

Species used is human unless otherwise specified.

LLOQ

The LLOQ is the lowest figure in the calibration range. For certain immunoassays, this value may correspond to the limit of detection, as stated by the kit manufacturer.



COMPOUND	TECHNIQUE	MATRIX	LLOQ
ACEBUTOLOL	HPLC/FLUO	PLASMA	25 ng/ml
ACECLOFENAC	HPLC/UV	PLASMA, URINE	0.1 ng/ml
ACENOCOUMAROL	HPLC/UV	PLASMA	3.12 ng/ml
ACEPROMAZINE	HPLC/EC	CAT, DOG PLASMA	2 ng/ml
N-ACETYLCYSTEINE	HPLC/FLUO	PLASMA	50 ng/ml
ACETYLSALICYLIC ACID (ASPIRIN) + SALICYLIC ACID	HPLC/FLUO	PLASMA	50 ng/ml // 200 ng/mL
ACETYLSALICYLIC ACID (ASPIRIN) + SALICYLIC ACID	HPLC/UV	PLASMA	0.1 µg/ml
ACYCLOVIR	HPLC/FLUO	PLASMA	10 ng/ml
MYCOPHENOLIC ACID AND ITS METABOLITE	HPLC/UV	PLASMA	0.1 µg/ml // 1 µg/ml
ADRENALINE / NORADRENALINE	LC/MS/MS	PLASMA	50/100 pg/ml
ADRENOCORTICOTROPIC HORMONE (ACTH)	RIA	PLASMA	16.8 pg/ml
ALANINE AMINOPTIDASE	COLORIMETRIC	URINE	0.75 u/l
ALBENDAZOLE SULFOXIDE	LC/MS/MS	PLASMA	1 ng/ml
ALDOSTERONE	RIA	PLASMA	25 pg/mL
ALLOTETRAHYDROCORTISOL	LC/MS/MS	URINE	0.1 µg/ml
ALMINOPROFEN	HPLC/UV	PLASMA	1 µg/ml
ALMINOPROFEN	HPLC/UV	URINE	20 µg/ml
ALPRAZOLAM + ALPHA HYDROXY ALPRAZOLAM	LC/MS/MS	PLASMA	0.05 ng/mL
ALTIZIDE	HPLC/UV	PLASMA	4 ng/ml
ALTRENOGEST	HPLC/UV	SWINE TISSUES	1.25 ng/g
AMBROXOL	HPLC/EC	PLASMA	1 ng/ml
AMILORIDE	HPLC/FLUO	PLASMA	1 ng/ml
AMIODARONE + DESETHYLAMIODARONE	LC/MS/MS	PLASMA	5 ng/ml
AMISULPRIDE	LC/MS/MS	PLASMA	1 ng/ml
AMITRIPTYLINE AND NORTRIPTYLINE	HPLC/UV	PLASMA	5 ng/ml
AMLODIPINE	LC/MS/MS	PLASMA	50 pg/mL
AMOXICILLIN	HPLC/UV	PLASMA, SERUM	0.1 µg/ml
AMOXICILLIN	HPLC/UV	URINE	1 µg/ml
AMOXICILLIN	LC/MS/MS	PLASMA	50 ng/ml
AMOXICILLIN	LC/MS/MS	CAT, DOG PLASMA	0.1 µg/ml
AMPICILLINE	HPLC/FLUO	PLASMA	20 ng/ml
ANGIOTENSIN I (ARP)	RIA	PLASMA	0.3 ng/ml
ANGIOTENSIN II	EIA	PLASMA	1 pg/ml
ANGIOTENSIN CONVERTING ENZYME (ACE)	RIA	SERUM	0-80 units
ANTIDIURETIC HORMONE (ADH) (VASOPRESSIN)	RIA	PLASMA	0.125 pg/tube
ANTIDIURETIC HORMONE (ADH) (VASOPRESSIN)	RIA	URINE	0.125 pg/tube
ANTIPYRINE	HPLC/UV	PLASMA	0.50 µg/ml
ASPIRIN	SEE ACETYLSALICYLIC ACID		
ATENOLOL	HPLC/FLUO	PLASMA	25 ng/ml
ATENOLOL	HPLC/FLUO	PLASMA	10 ng/ml
ATORVASTATIN	LC/MS/MS	PLASMA	0.1 ng/ml
ATRIAL NATRIURETIC PEPTIDE (ANP)	RIA	PLASMA	3 pg/tube
ATRIAL NATRIURETIC PEPTIDE (ANP)	RIA	URINE	15 pg/ml
AZITHROMYCIN	LC/MS/MS	PLASMA	10 ng/ml
BAMIFYLLINE AND 3 METABOLITES	HPLC/UV	PLASMA	10 ng/ml
BECLOMETHASONE AND 2 METABOLITES	LC/MS/MS	PLASMA	20 pg/ml
BECLOMETHASONE AND 2 METABOLITES	LC/MS/MS	RAT PLASMA	0.5 ng/ml
BENDIOCARB	HPLC/UV	DOG HAIR	0.1 µg/g
BETAHISTINE METABOLITE (PAA)	GC/MS	PLASMA	0.50 ng/ml
BETAMETHASONE	LC/MS/MS	PLASMA	0.1 ng/ml
BEZAFIBRATE	HPLC/UV	PLASMA	25 ng/ml
BICLOTYMOL	HPLC/EC	PLASMA	5 ng/ml
BICLOTYMOL	HPLC/EC	URINE	50 ng/ml
BIG ENDOTHELIN-1	ELISA	PLASMA	1.56 pg/mL
BISOPROLOL	HPLC/FLUO	PLASMA	2 ng/ml
BRODIMOPRIM AND HYDROXYBRODIMOPRIM	HPLC/FLUO	PLASMA	50 ng/ml
BRODIMOPRIM AND HYDROXYBRODIMOPRIM	HPLC/FLUO	URINE	250 ng/ml
BROMAZEPAM	HPLC/UV	PLASMA	5 ng/ml
BUCINDOLOL AND METABOLITES	LC/MS/MS	PLASMA	0.1 ng/ml

GLOBAL BIOANALYTICAL METHODS



COMPOUND	TECHNIQUE	MATRIX	LLOQ
BUCLIZINE	HPLC/EC	PLASMA, URINE	2.5 ng/ml
BUDESONIDE 22R AND 22S EPIMER	LC/MS/MS	PLASMA	80 pg/ml
BUFLOMEDIL AND CLR40634	LC/MS/MS	PLASMA, URINE	1 ng/ml
BUPIVACAINE	HPLC/EC	PLASMA	2.5 ng/ml
BUPRENORPHINE AND NORBUPRENORPHINE	LC/MS/MS	PLASMA	0.1 ng/ml
BUSPIRONE	HPLC/EC	PLASMA	0.25 ng/ml
BUSPIRONE + METABOLITE	LC/MS/MS	PLASMA	0.05 // 0.25 ng/ml
CAFFEINE	HPLC/UV	PLASMA	50.5 ng/ml
CAFFEINE / PARAXANTHINE	LC/MS/MS	PLASMA	100 ng/mL
CALCITONIN	RIA	SERUM	2 pg/mL
CAPTOPRIL	LC/MS/MS	PLASMA	5 ng/ml
CAPECITABINE, 5DFCR, 5DFUR, 5FU	LC/MS/MS	PLASMA	5DFCR, 5DFUR 10 ng/mL 5FU 2 ng/mL
CARAZOLOL	HPLC/FLUO	PIG TISSUES	2 ng/g
CARBAMAZEPINE - 10,11 epoxyde	LC/MS/MS	PLASMA	1 / 25 ng/ml
CARBIDOPA / LEVODOPA	HPLC/EC	PLASMA	5 ng/ml
CARBINOXAMINE	HPLC/EC	PLASMA	1 ng/ml
CARBOCYSTEINE	HPLC/UV	PLASMA, URINE	0.5 µg/ml
CARTEOLOL	LC/MS/MS	PLASMA	0.1 ng/ml
CARTEOLOL	LC/MS/MS	URINE	0.2 ng/ml
CARVEDILOL	LC/MS/MS	PLASMA	0,1 ng/ml
CEFACTOR	HPLC/UV	PLASMA	0.1 µg/ml
CEFADROXIL	HPLC/UV	PLASMA	0.1 µg/ml
CEFALEXIN	HPLC/UV	BOVINE MILK	10 ng/ml
CEFALEXIN	HPLC/UV	BOVINE TISSUES	20 ng/g
CEFAPIRIN	HPLC/UV	PLASMA	10 ng/ml
CEFATRIZINE	HPLC/UV	PLASMA	0.1 µg/ml
CEFATRIZINE	HPLC/UV	URINE	2 µg/ml
CEFAZOLIN	HPLC/UV	SERUM	0.5 µg/ml
CEFEPIME	HPLC/UV	SERUM	0.1 µg/ml
CEFIXIME	HPLC/UV	URINE	5 µg/ml
CEFIXIME	HPLC/UV	SERUM	0.1 µg/ml
CEFONICID	HPLC/UV	PLASMA	1.5 µg/ml
CEFONICID	HPLC/UV	URINE	6 µg/ml
CEFOPERAZONE	HPLC/UV	PLASMA	25 ng/ml
CEFQUINOME	HPLC/UV	BOVINE TISSUES	25 ng/g
CEFRADINE	HPLC/UV	PLASMA	0.1 µg/ml
CEFRADINE	HPLC/UV	URINE	1 µg/ml
CEFSULODIN	HPLC/UV	PLASMA	1.6µg/ml
CEFTIOFUR	HPLC/UV	SWINE PLASMA	0.15 µg/ml
CEFTIOFUR	HPLC/UV	SWINE URINE	1 µg/ml
CEFTIOFUR	HPLC/UV	SWINE TISSUES	0.1 µg/g
CEFTRIAZONE/CEFUROXIME	HPLC/UV	PLASMA	100 ng/ml
CEFUROXIME/CEFTRIAZONE	HPLC/UV	PLASMA	100 ng/ml
CEPHALEXIN	LC/MS/MS	DOG PLASMA	100 ng/ml
CEPHALEXIN	LC/MS/MS	BOVINE TISSUES + MILK	50 µg/kg
CETERIZINE	LC/MS/MS	PLASMA	100 pg/ml
CETERIZINE	LC/MS/MS	URINE	50 ng/ml
CETERIZINE R, S enantiomers	LC/MS/MS	PLASMA	3 ng/ml
CHLORAMPHENICOL	HPLC/UV	RABBIT/POULTRY TISSUES, SERUM	10 ng/ml
CHLORMADINONE	GC/MS	PLASMA	50 pg/ml
CHLORPHENIRAMINE	LC/MS/MS	PLASMA	5 ng/ml
CHLORPROPAMIDE	HPLC/UV	PLASMA	1 µg/ml
CHLORTHALIDONE	HPLC/UV	WHOLE BLOOD	0.1 µg/ml
CICLESONIDE METABOLITE	LC/MS/MS	MOUSE, RAT SERUM	0.25 ng/ml
CIMETIDINE	LC/MS/MS	PLASMA	2 ng/ml
CIPROFLOXACIN	HPLC/FLUO	PLASMA	10 ng/ml
CLARITHROMYCIN	LC/MS/MS	PLASMA	10 ng/ml
CLARITHROMYCIN	LC/MS/MS	DOG PLASMA	10 ng/ml
CLAVULANIC ACID	HPLC/UV	PLASMA	0.05 µg/ml

COMPOUND	TECHNIQUE	MATRIX	LLOQ
CLAVULANIC ACID	HPLC/UV	CAT, DOG PLASMA	0.1 µg/ml
CLEMASTINE	LC/MS/MS	PLASMA	0.05 ng/ml
CLINDAMYCIN	LC/MS/MS	PLASMA	10 ng/ml
CLOMIPRAMINE	GC/MS	PLASMA	0.1 ng/ml
CLOMIPRAMINE & DESMETHYLCLOMIPRAMINE	HPLC/UV	PLASMA	2 ng/ml
CLOPIDOGREL (acid metabolite of)	LC/MS/MS	PLASMA	5 ng/ml
CODEINE	GC/MS	PLASMA	1 ng/ml
COLISTIN	HPLC/FLUO	SERUM, URINE	0.2 µg/ml
COLLAGEN I (CTX)	EIA	SERUM	492 pmol/l
COLLAGEN I TELOPEPTIDE (ICTP)	RIA	SERUM	1 ng/mL
CORTICOSTEROID-BINDING GLOBULIN (CBG)	RIA	PLASMA	0.25 µg/mL
CORTISOL	LC/MS/MS	PLASMA	10 ng/mL
CORTISOL	RIA	PLASMA	7.25 ng/ml
CORTISOL	RIA	URINE	7 nmol/l
CORTISOL / 6-β HYDROXYCORTISOL	LC/MS/MS	URINE (specific vs. 6 α - hydroxycortisol)	1 // 2 ng/ml
CORTISOL + II-DEOXYCORTISOL	LC/MS/MS	PLASMA	5 // 1 ng/mL
CYCLIC ADENOSINE MONOPHOSPHATE (cAMP)	RIA	PLASMA	0.05 ng/mL
CYCLIC ADENOSINE MONOPHOSPHATE (cAMP)	RIA	URINE	0.25 pmol/ml
CYCLIC GASTRIN RELEASING PEPTIDE (cGRP)	RIA	PLASMA	10 pg/ml
CYCLIC GUANOSINE MONPHOSPHATE (cGMP)	RIA	PLASMA	0.1 nmol/l
CYCLIC GUANOSINE MONPHOSPHATE (cGMP)	RIA	URINE	0.5 nmol/l
CYCLOSPORIN	RIA	DOG BLOOD	12.5 ng/ml
CYCLOSPORIN A	HPLC/UV	BLOOD	10 ng/ml
D-SORBITOL	COLORIMETRIC	SERUM / URINE	0.01 g/l
DAUNORUBICIN/DAUNORUBICINOL	HPLC/FLUO	PLASMA	5 ng/ml
DEET (n,n-diethyl-m-toluamide)	GC/MS	PLASMA	0.5 ng/ml
DEET (n,n-diethyl-m-toluamide)	GC/MS	RABBIT PLASMA	0.5 ng/ml
DELAPRIL AND 3 METABOLITE	LC/MS/MS	PLASMA	10 ng/ml
DELTAMETHRIN	GC/MS	TISSUES	10 ng/g
DESACETYLNITAZOXANIDE	HPLC/UV	PLASMA	0.02 µg/ml
DEFERIOXAMINE	HPLC/UV	PLASMA	0.2 µg/ml
DEFERIOXAMINE	HPLC/UV	URINE	0.5 µg/ml
DESMETHYLSELEGILINE	SEE SELEGILINE		
DEXAMETHASONE	LCMS	BOVINE TISSUES, MILK	0,35 ng/g
DEXTROMETHORPHAN / DEXTRORPHAN	HPLC/FLUO	PLASMA	5 ng/ml
DEXTROMETHORPHAN / DEXTRORPHAN	HPLC/FLUO	URINE	50 ng/ml
DEXTROMETHORPHAN AND 3 METABOLITES / DEXTRORPHAN	LC/MS/MS	PLASMA	0.2 ng/ml
DEXTRO / NOR PROPOXYPHENE	LC/MS/MS	PLASMA	0.2 ng/ml
DEXTRO / NOR PROPOXYPHENE	HPLC/UV	PLASMA	5 ng/ml
DIAZINON	GC/MS	TISSUES	5 ng/g
DICLOFENAC	LC/MS/MS	PLASMA	10 ng/ml
DICLOFENAC	LC/MS/MS	PLASMA	0.5 ng/ml
DICLOFENAC	LC/MS/MS	PLASMA	50 pg/ml
DICLOFENAC AND 4'-HYDROXYDICLOFENAC	LC/MS/MS	URINE	3 ng/ml
DIGOXIN	LC/MS/MS	PLASMA	0.2 ng/mL
DIGOXIN	LC/MS/MS	URINE	1 ng/mL
DIHYDROERGOTAMINE	LC/MS/MS	PLASMA	0.025 ng/ml
DHPG / NORADRENALINE	HPLC/EC	PLASMA	50 pg/mL
DIHYDROXYPHENYL ACETIC ACID (DOPAC)	HPLC/EC	PLASMA	0.2 ng/ml
DIHYDROXYPHENYL GLYCOL (DHPG, or DOPEG)	HPLC/EC	PLASMA	100 pg/ml
DIHYDROSTREPTOMYCIN	LC/MS/MS	BOVINE MILK, TISSUES	100 µg/ml
DILTIAZEM + 2 METABOLITES	LC/MS/MS	PLASMA	1 ng/ml
DIMETHINDENE	LC/MS/MS	PLASMA	0.1 ng/mL
DIPYRIDAMOLE	LC/MS/MS	PLASMA	2 ng/mL
DOCETAXEL	HPLC/UV	PLASMA	10 ng/ml
DOMPERIDONE	HPLC/EC	PLASMA	1 ng/mL
DOXORUBICIN (DAUNORUBICIN)	HPLC/FLUO	RAT PLASMA	10 ng/ml
DOXYCYCLINE	HPLC/UV	PLASMA	25 ng/ml
DOXYCYCLINE	HPLC/UV	GINGIVAL LIQUID	10 ng/g
DOXYLAMINE	HPLC/UV	PLASMA	5 ng/ml

COMPOUND	TECHNIQUE	MATRIX	LLOQ
DPVPA	LC/MS/MS	DOG PLASMA	0.2 µg/mL
DROPROPIZINE	HPLC/EC	PLASMA, URINE	2 ng/mL
EBASTINE	HPLC/UV	PLASMA	10 ng/ml
EFAROXAN ENANTIOMERS	LC/MS/MS	PLASMA	0.1 ng/mL
EFAROXAN ENANTIOMERS	LC/MS/MS	URINE	1 ng/mL
ENALAPRIL / ENALAPRILAT	LC/MS/MS	PLASMA	1 ng/ml
ENDOTHELIN-1	RIA	PLASMA	0.63 pg/tube
ENDOTHELIN-1	RIA	URINE	0.63 pg/tube
EPINEPHRINE	SEE ADRENALINE		
ERYTHROMYCIN BASE AND SUCCINATE	LC/MS/MS	PLASMA	50 ng/ml
ERYTHROMYCIN / CLARITHROMYCIN	LC/MS/MS	PLASMA	10 ng/ml
ERYTHROPOEITIN	EIA	SERUM	2.5 mIU/ml
ESTRADIOL	LC/MS/MS	PLASMA	2 pg/mL
ESTRADIOL / ESTRONE	GC/MS	PLASMA	10 pg/ml
ESTRADIOL / ESTRONE	GC/MS	MOUSE PLASMA	100 pg/ml
ESTRADIOL / ESTRONE / NORETHISTERONE	LC/MS/MS	SERUM	estradiol/estrone 5 pg/mL norethisterone 50 pg/mL
ESTRADIOL	RIA	PLASMA	20 pg/ml
ESTRADIOL	RIA	PLASMA-SERUM WITH EXTRACTION	10 pg/ml
ESTRIOL	GC/MS	PLASMA	10 pg/ml
ESTRONE	SEE ESTRADIOL		
ESTRONE SULFATE	LC/MS/MS	PLASMA	0.05 ng/ml
ETHINYLESTRADIOL	GC/MS	PLASMA	10 pg/ml
ETHINYLESTRADIOL	GC/MS	SERUM	5 pg/ml
ETHINYLESTRADIOL/LEVONORGESTREL	LC/MS/MS	PLASMA	ethinylestradiol 5 pg/mL levonorgestrel 0.1 ng/mL
ETHINYLESTRADIOL/GESTODENE	LC/MS/MS	PLASMA	ethinylestradiol 2.5 pg/mL levonorgestrel 50 pg/mL
ETIFOXINE + METABOLITE	HPLC/UV	PLASMA	20 // 10 ng/ml
ETILEFRINE	LC/MS/MS	PLASMA	0.2 ng/ml
ETOPOSIDE	HPLC/FLUO	PLASMA	5 ng/ml
ETRABAMINE (L)	GC/MS	PLASMA	0.1 ng/ml
FAMOTIDINE	HPLC/UV	PLASMA	5 ng/ml
FENBUFEN / HBBA	HPLC/UV	PLASMA	0.2 // 0.6 µg/ml
FENOFIBRATE	SEE FENOFIBRIC ACID		
FENOFIBRIC ACID	HPLC/UV	PLASMA	20 ng/ml
FLECAINIDE	HPLC/FLUO	PLASMA	2 ng/ml
FLUCONAZOLE	LC/MS/MS	PLASMA	20 ng/ml
FLUNISOLIDE AND 6-HYDROXYFLUNISOLIDE	LC/MS/MS	PLASMA	50 pg/ml
FLUNISOLIDE AND 6-HYDROXYFLUNISOLIDE	LC/MS/MS	RAT PLASMA	100 pg/ml
FLUOXETINE	LC/MS/MS	PLASMA	0.25 ng/ml
FLUOXETINE AND NORFLUOXETINE	HPLC/UV	PLASMA	5 ng/ml
FLUPHENAZINE	HPLC/EC	PLASMA	10 pg/ml
FLUTAMIDE / HYDROXYFLUTAMIDE	HPLC/UV	PLASMA	2 // 5 ng/ml
FLUVASTATIN	LC/MS/MS	PLASMA	0.5 ng/ml
FOLINIC ACID	HPLC/UV	PLASMA	6.25 µg/ml
FOLLICLE-STIMULATING HORMONE (FSH)	RIA	PLASMA	0.99 mIU/ml
FORMOTEROL	LC/MS/MS	PLASMA	2 pg/ml
FORMOTEROL	LC/MS/MS	URINE	10 pg/ml
FORMOTEROL	LC/MS/MS	RAT, DOG PLASMA	10 pg/ml
FUROSEMIDE	HPLC/FLUO	PLASMA	5 ng/ml
FUSIDIC ACID	HPLC/UV	SALINE SOLUTION	
GASTRIN	RIA	PLASMA	19 µIU/ml
GATIFLOXACIN	HPLC/FLUO	PLASMA	0.010 µg/ml
GATIFLOXACIN	HPLC/FLUO	URINE	0.100 µg/ml
GEMFIBROZIL	HPLC/UV	PLASMA	10 ng/ml
GENTAMYCIN	HPLC/FLUO	BOVINE TISSUES	50 ng/g
GLAFENINE	HPLC/UV	PLASMA	0.062 µg/ml
GLAFENIC ACID	HPLC/UV	PLASMA	0.5 µg/ml
GLIBENCLAMIDE (Glyburide)	HPLC/FLUO	PLASMA	2 ng/ml

GLOBAL BIOANALYTICAL METHODS



COMPOUND	TECHNIQUE	MATRIX	LLOQ
GLICLAZIDE	HPLC/UV	PLASMA	5 ng/ml
GLIPIZIDE	LC/MS/MS	PLASMA	2 ng/ml
GLUCAGON	RIA	PLASMA	13 pg/ml
N ACETYL β D GLUCOSAMINIDASE	COLORIMETRY	URINE	
GLUTAMINE AND GLUTAMIC ACID	HPLC/FLUO	PLASMA	2 µg/ml
α-GLUTATHION S-TRANSFERASE	EIA	URINE	1.25 µg/l
π-GLUTATHION S-TRANSFERASE	EIA	URINE	3.12 µg/l
GM-CSF	EIA	PLASMA	7.8 pg/mL
GOSERELIN	LC/MS/MS	DOG SERUM	2 ng/ml
GRISEOFULVINE	HPLC/FLUO	BOVINE TISSUES	10 µg/g
5-HYDROXY INDOLE ACETIC ACID (5-HIAA)	HPLC/EC	PLASMA	0.5 ng/ml
3 -HYDROXYMORPHINAN	LC/MS/MS	PLASMA	0.2 ng/ml
HALOFUGINONE	HPLC/UV	BOVINE PLASMA	1 ng/ml
HOMOVANILLIC ACID (HVA)	HPLC/EC	PLASMA	0.5 ng/ml
HUMAN GROWTH HORMONE (HGH)	RIA	PLASMA	0.02 miu/l
HYDROCHLOROTHIAZIDE	LC/MS/MS	PLASMA	1 ng/mL
HYDRODOLASETRON	LC/MS/MS	PLASMA	0.5 ng/mL
HYDROXYZINE	HPLC/EC	PLASMA	1 ng/ml
IBUPROFEN	LC/MS/MS	PLASMA	50 ng/ml
siCAM-1	EIA	PLASMA	1.86 pg/mL
IDAZOXAN	LC/MS/MS	PLASMA	0.3 ng/mL
IDAZOXAN	LC/MS/MS	URINE	1 ng/mL
IL-1b	EIA	PLASMA	3.9 pg/mL
IL-6	EIA	PLASMA	3.1 pg/mL
IL-8	EIA	PLASMA	30 pg/mL
IL-10	EIA	PLASMA	7.8 pg/mL
IMIDAPRIL / IMIDAPRILAT	LC/MS/MS	PLASMA	0.5 ng/ml
IMIPRAMINE AND DESIMIPRAMINE	HPLC/EC	PLASMA	2 ng/ml
IMIPRAMINE AND DESIMIPRAMINE	HPLC/EC	URINE	10 ng/ml
INDAPAMIDE	HPLC/UV	WHOLE BLOOD	10 ng/ml
INDOBUFEN	HPLC/UV	PLASMA	50 ng/ml
INDOBUFEN	HPLC/UV	URINE	200 ng/ml
INSULIN	RIA	PLASMA	1 µiu/ml
INSULIN LIKE GROWTH FACTOR (IGF-1)	RIA	PLASMA	2 ng/ml
INSULIN LIKE GROWTH FACTOR BINDING PROTEIN-3 (IGFBP-3)	RIA	PLASMA	50 ng/ml
INTERFERON α2B	ELISA	SERUM	4 pg/mL
IPRATROPIUM BROMIDE	LC/MS/MS	RAT PLASMA	0.2 ng/mL
ISOMETAMIDIUM	HPLC/UV	BOVINE PLASMA	8 ng/ml
ISOMETAMIDIUM	HPLC/UV	BOVINE TISSUES	100 ng/g
ISOMETAMIDIUM	HPLC/UV	BOVINE MILK	100 ng/ml
ISOMETAMIDIUM	HPLC/UV	BOVINE URINE	10 ng/ml
ISOMETAMIDIUM	HPLC/UV	RAT PLASMA	10 ng/ml
ISOTRETINOIN	HPLC/UV	PLASMA	2 ng/ml
ISOTRETINOIN	HPLC/UV	DOG PLASMA	7.50 ng/ml
ISOSORBIDE-5-MONONITRATE	LC/MS/MS	PLASMA	5 ng/mL
ITRACONAZOLE, OH-itraconazole	LC/MS/MS	PLASMA	5 ng/mL
KETOCONAZOLE	LC/MS/MS	PLASMA	10 ng/ml
KETOPROFEN	GC/MS	SYNOVIAL LIQUID	2.5 ng/ml
KETOPROFEN	GC/MS	TENDON, SKIN, CARTILAGE	0.5 ng/50mg
KETOPROFEN	LC/MS/MS	PLASMA	0.2 ng/ml
KETOPROFEN	LC/MS/MS	BOVINE, PIG PLASMA	30 ng/ml
KETOPROFEN	LC/MS/MS	RABBIT MUSCLE	0.1 ng/g
KETOPROFEN	LC/MS/MS	DOG, RABBIT PLASMA	0.1 ng/ml
LABETALOL	HPLC/FLUO	PLASMA	2 ng/ml
LACIDIPINE	LC/MS/MS	PLASMA	20 pg/ml
LAMISIL	HPLC/UV	PLASMA	20 ng/ml
LAMISIL	HPLC/UV	NAILS, HAIR, SKIN	5 ng/g
LANSOPRAZOLE	LC/MS/MS	PLASMA	1 ng/ml
LANSOPRAZOLE + 3 METABOLITES	HPLC/UV	PLASMA	5 ng/ml
LANSOPRAZOLE + 3 METABOLITES	HPLC/UV	URINE	20 ng/ml

COMPOUND	TECHNIQUE	MATRIX	LLOQ
LERCANIDIPINE	LC/MS/MS	PLASMA	0.1 ng/ml
(R), (S)- LERCANIPIDE	LC/MS/MS	PLASMA	0,01 ng/ml
LEUPRORELIN	LC/MS/MS	DOG PLASMA	2 ng/ml
LEVODOPA	SEE CARBIDOPA		
LEVONORGESTREL	GC/MS	PLASMA	50 pg/ml
LEVOTHYROXIN	SEE T4		
LIDOCAINE	FPIA	SERUM	0-10 µg/ml
LIDOCAINE and its metabolite MEGX	HPLC/UV	URINE	0.1 µg/ml
LIDOCAINE and its metabolite MEGX	HPLC/UV	SERUM	0.1 µg/ml
LINCOMYCIN	GC/MS	SWINE, POULTRY, CALF TISSUES	40 ng/g
LIOTHYROXIN	SEE T3		
LOMEFLOXACIN	HPLC/FLUO	PLASMA	5 ng/ml
LORAZEPAM	HPLC/UV	PLASMA	200 ng/ml
LORAZEPAM	GC/MS	PLASMA, URINE	0.5 ng/ml
LOSARTAN and EXP-3174	LC/MS/MS	PLASMA	0.5 ng/ml
LTB4	EIA	PLASMA	3.9 pg/mL
LTE4	EIA	URINE	7.8 pg/mL
LUTEINIZING HORMONE (LH)	RIA	PLASMA	0.8 miu/ml
MANIDIPINE and METABOLITE M-XIII	LC/MS/MS	PLASMA	0.2 ng/ml
MEBEVERINE ACID AND DESMETHYL MEBEVERINE ACID	LC/MS/MS	PLASMA	10 ng/ml
MEBEVERINE ALCOHOL AND DESMETHYL MEBEVERINE ALCOHOL	LC/MS/MS	PLASMA	0.2 ng/ml
MECILLINAM	HPLC/UV	PLASMA	0.1 µg/ml
MECILLINAM	HPLC/UV	URINE	10 µg/ml
MECLOZINE	HPLC/EC	PLASMA	2.5 ng/g
MECLOZINE	HPLC/EC	URINE	5 ng/g
MEDIFOXAMINE + METABOLITE	HPLC/UV	PLASMA, URINE	10 ng/ml
MEDROGESTONE + METABOLITE	GC/MS	PLASMA	0.1 // 1ng/ml
MEDROGESTONE + 6 METABOLITES	HPLC/UV	URINE	50 ng/ml
MEDROXYPROGESTERONE	LC/MS/MS	PLASMA	0.1 ng/ml
MEDROXYPROGESTERONE	LC/MS/MS	DOG PLASMA	2 ng/ml
MEFENAMIC ACID	HPLC/UV	PLASMA	100 ng/ml
MEGESTROL	LC/MS/MS	DOG PLASMA	100 pg/ml
MEPINDOLOL	HPLC/EC	PLASMA	0.5 ng/ml
MEPINDOLOL	HPLC/EC	URINE	25 ng/ml
MEQUITAZINE	LC/MS/MS	PLASMA	0.1 ng/ml
MESALAZINE + METABOLITE	HPLC/FLUO	URINE	5 µg/ml
MESALAZINE + N-ACETYL MESALAZINE	LC/MS/MS	PLASMA	5 ng/ml
METFORMIN	LC/MS/MS	PLASMA	5 ng/mL
METFORMIN	LC/MS/MS	URINE	2.5 µg/mL
METFORMIN	HPLC/UV	PLASMA	50 ng/ml
METFORMIN	GC/MS	URINE	2.5 µg/ml
METFORMIN	GC/MS	PLASMA	5 ng/ml
METHOTREXATE + METABOLITE	HPLC/UV	PLASMA	5 ng/ml
METHOTREXATE + METABOLITE	HPLC/UV	URINE	100 // 20 ng/ml
METHOXYMORPHINAN	LC/MS/MS	PLASMA	0.2 ng/ml
METHYLAMPHETAMINE	SEE SELEGILINE		
METHYLPHENIDATE	LC/MS/MS	PLASMA	0.1 ng/ml
METHYLPREDNISOLONE	HPLC/UV	PLASMA	4 ng/ml
METOCLOPRAMIDE	HPLC/FLUO	PLASMA	2 ng/ml
METOCLOPRAMIDE	HPLC/EC	PLASMA	1 ng/ml
METOPROLOL	HPLC/FLUO	PLASMA	5 ng/ml
METOPROLOL	HPLC/FLUO	PLASMA	2 ng/ml
METOPROLOL & α-HYDROXYMETOPROLOL	HPLC/FLUO	PLASMA	5 ng/ml
METRONIDAZOLE	HPLC/UV	PLASMA	0.1 µg/ml
β2-MICROGLOBULIN	RIA	PLASMA, URINE	0.1 µg/l
MIDAZOLAM	GC/MS	PLASMA	0.50 ng/ml
MIDAZOLAM + 1-HYDROXYMIDAZOLAM	LC/MS/MS	PLASMA	0.1 ng/ml
MIDECAMYCIN (MB 12)	HPLC/UV	PLASMA	10 ng/ml

COMPOUND	TECHNIQUE	MATRIX	LLOQ
MONO-4'HR AND MONO-3'HR DERIVATIVES	LC/MS/MS	PLASMA	3 ng/ml
MINOCYCLIN	HPLC/UV	PLASMA	50 ng/ml
MONTELUKAST	LC/MS/MS	PLASMA	3 ng/ml
MITOXANTRONE	HPLC/VISIBLE	PLASMA	1 ng/ml
MORNIFLUMATE AND NIFLUMIC ACID	LC/MS/MS	PLASMA	0.1 µg/ml
MORPHINE	RIA	RAT PLASMA	2.5 ng/ml
MOTILIN	RIA	PLASMA	31.2 pmol/l
MOXIFLOXACIN	LC/MS/MS	PLASMA	25 ng/mL
MOXONIDINE	LC/MS/MS	PLASMA	50 pg/ml
NAFTAZONE	HPLC/UV	PLASMA	2 ng/ml
NAFTIDROFURYL	HPLC/FLUO	PLASMA	5 ng/ml
NALTREXONE / 6β-NALTREXOL	LC/MS/MS	PLASMA	0.5 ng/ml
NAPROXENE	HPLC/FLUO	PLASMA	0.5 µg/ml
NEFOPAM	HPLC/UV	PLASMA	1 ng/ml
NEUROPEPTIDE γ	RIA	PLASMA	3 pmol/mL
NICERGOLINE / LUMILYERGOL / DEMETHYLLUMILYERGOL	LC/MS/MS	PLASMA	0.025 ng/ml // 0.2 ng/ml
NICORANDIL	GC/MS	PLASMA	0.5 ng/ml
NICOTINE AND COTININE	LC/MS/MS	PLASMA	5 ng/ml
NICOTINE AND COTININE	LC/MS/MS	SALIVA	5 ng/ml
NIFEDIPINE	HPLC/UV	PLASMA	5 nmol/l
NIFEDIPINE	LC/MS/MS	URINE	0.5 ng/ml
NIFLUMIC ACID	HPLC/UV	PLASMA, URINE	0.5 µg/ml
NIFUROXAZIDE	HPLC/UV	PLASMA	2 ng/ml
NIFUROXAZIDE	HPLC/UV	URINE	5 ng/ml
NILVADIPINE +M3 + M7	GC/MS	PLASMA	0.125 // 0.5 // 0.5 ng/ml
NILVADIPINE +M3 + M7	GC/MS	URINE	0.125 // 2 // 0.5 ng/ml
NIMESULIDE AND 4 METABOLITES	HPLC/UV	PLASMA	0.3 µg/ml
NIMODIPINE	GC/MS	PLASMA	0.25 ng/ml
NITROFURANTOIN	HPLC/UV	PLASMA	0.05 µg/ml
NITROFURANTOIN	HPLC/UV	URINE	0.1 µg/ml
NIZATIDINE	HPLC/UV	PLASMA	20 ng/ml
NOMEGESTROL ACETATE	EIA	PLASMA	0.1 ng/ml specific
NOMEGESTROL ACETATE	EIA	MONKEY PLASMA	0.5 ng/ml
NOMEGESTROL ACETATE	EIA	RAT PLASMA	0.25 ng/ml
NOMEGESTROL ACETATE	LC/MS/MS	PLASMA	0.05 ng/ml
NORADRENALINE (NOREPINEPHRINE)	SEE ADRENALINE		
NORADRENALINE	SEE DIHYDROXYPHENYL GLYCOL (DHPG)		
NOREPINEPHRINE	SEE DIHYDROXYPHENYL GLYCOL (DHPG)		
NORETHINDRONE	SEE NORETHISTERONE		
NORETHISTERONE	GC/MS	PLASMA	0.1 ng/ml // 10 pg/ml
NORETHISTERONE	GC/MS	RABBIT PLASMA	0.1 ng/ml
OMEPRAZOLE + 5'HYDROXY OMEPRAZOLE	LC/MS/MS	PLASMA	1 ng/mL
OSTEOCALCIN	EIA	SERUM	4.7 ng/ml
OLANZAPINE	LC/MS/MS	PLASMA	0.25 ng/mL
OXACILLIN	HPLC/UV	PLASMA	0.01 µg/ml
OXYBUTYNIN / DESETHYL OXYBUTININ	GC/MS	PLASMA	0.2 // 1 ng/ml
OXYBUTYNIN / DESETHYL OXYBUTININ	LC/MS/MS	PLASMA	0.5 ng/ml
OXYTETRACYCLIN	HPLC/UV	POULTRY, RABBIT SERUM	25 ng/ml
OXYTETRACYCLIN	HPLC/UV	POULTRY, RABBIT TISSUES	100 ng/g
OXYTOCIN	ELISA	PLASMA	1.5 pg/mL
PANCREATIC POLYPEPTIDE	RIA	PLASMA	Variable range
PANTOPRAZOLE	HPLC/UV	PLASMA	5 ng/ml
PARACETAMOL	HPLC/UV	PLASMA	20 ng/ml
PARACETAMOL	HPLC/EC	SALIVA, URINE	25 ng/ml
PARA-METHOXY-AMPHETAMINE	LC/MS/MS	URINE	1 ng/ml
PAROXETINE	LC/MS/MS	PLASMA	50 pg/ml
PEMETREXED	LC/MS/MS	PLASMA	low range : 0.01 µg/mL high range : 2µg/mL
PENICILLINE V	HPLC/UV	PLASMA	0.025 µg/ml
PENICILLINE V	HPLC/UV	URINE	0.05 µg/ml

COMPOUND	TECHNIQUE	MATRIX	LLOQ
PENTAZOCINE	HPLC/EC	PLASMA	5 ng/ml
PENTOXIFYLLINE + MI + MV	HPLC/UV	PLASMA	5 ng/ml
PENTOXYVERINE	HPLC/EC	PLASMA, URINE	5 ng/ml
PEPTIDE-C	RIA	PLASMA	0.15 ng/ml
PERMETHRIN	HPLC/UV	BOVINE FUR	100 ng/ml
PERMETHRIN / PYRIPROXIFEN	GC/MS	DOG PLASMA	10 // 0.1 µg/l
PERMETHRIN / PYRIPROXIFEN	GC/MS	DOG FUR	6.25 µg/g // 50 ng/g
PHENYLBUTAZONE	HPLC/UV	PLASMA	200 ng/ml
PHENYLBUTAZONE	HPLC/UV	URINE	10 ng/ml
PHENYLPROPANOLAMINE	LC/MS/MS	PLASMA	5 ng/ml
PHENYLTOLOXAMINE	HPLC/UV	PLASMA	5 ng/ml
PHENYTOIN / p-HPPH	HPLC/UV	PLASMA	0.1 µg/ml
PHLOROGLUCINOL	HPLC/UV	PLASMA	10 ng/ml
PINDOLOL	HPLC/FLUO	PLASMA	1 ng/ml
PINP	RIA	SERUM	5 pg/mL
PIPERACILLIN	HPLC/UV	PLASMA	0.1 µg/ml
PIRIBEDIL	GC/MS	PLASMA	0.1 ng/ml
PIRIBEDIL	GC/MS	RABBIT PLASMA	0.1 ng/ml
PIRIBEDIL	GC/MS	DOG, MONKEY PLASMA	0.1 ng/100 µl
PIRIBEDIL	GC/MS	RAT EAR LIQUID	0.1 ng/ml
PIRIBEDIL	GC/MS	BABOON PLASMA	0.2 ng/ml
PIRIBEDIL AND 3 METABOLITES	HPLC/UV	URINE	500 ng/ml
PIROXICAM	HPLC/UV	PLASMA	50 ng/ml
PIROXICAM	HPLC/UV	URINE	50 ng/ml
PRASOZIN	HPLC/FLUO	PLASMA	0.5 ng/ml
PREDNISOLONE/ PREDNISONE	LC/MS/MS	PLASMA	1/0,25 ng/ml
PREDNISOLONE	HPLC/UV	URINE	0.05 µg/ml
5 α PREGNANOLONE	GC/MS	PLASMA	0.5 ng/ml
5 β PREGNANOLONE	GC/MS	PLASMA	0.5 ng/ml
PRISTINAMYCIN	HPLC/UV+FLUO	PLASMA	25 ng/ml
PRISTINAMYCIN	HPLC/UV+FLUO	PLASMA	10 ng/ml
PRISTINAMYCIN	HPLC/UV+FLUO	DOG, RAT, MOUSE, BOVINE PLASMA	25 ng/ml
PRISTINAMYCIN IB AND IIB	LC/MS/MS	PLASMA	1 ng/ml
PROGESTERONE	RIA	PLASMA	0.04 ng/ml
PROGESTERONE	HPLC/RIA	PLASMA	0.1 ng/ml
PROGESTERONE	LC/MS/MS	PLASMA	0.2 ng/ml
PROLACTIN	RIA	PLASMA	65 µiu/ml
PROMEGESTONE	LC/MS/MS	PLASMA	0.10 ng/ml
PROMESTRIENE + METABOLITE	GC/MS	PLASMA	25 // 50 pg/ml
PROPRAFENONE	HPLC/UV	PLASMA	50 ng/ml
PROPRANOLOL	LC/MS/MS	PLASMA	1 ng/ml
PROSTAGLANDIN E2	EIA	PLASMA	7.8 pg/mL
PROSTAGLANDIN (6keto PGF1α)	EIA	PLASMA	10 pg/ml
PSEUDOEPHEDRINE	HPLC/UV	PLASMA	10 ng/ml
PYRIDOXIC ACID	HPLC/FLUO	PLASMA	20 ng/ml
PYRIPROXYFEN	GC/MS	PLASMA	0.10 ng/ml
PYRIPROXYFEN	GC/MS	FUR	50 ng/g
QUETIAPINE	LCMS/MS	PLASMA	1 ng/mL
QUININE	HPLC/UV	PLASMA	50 ng/ml
QUININE	HPLC/UV	PLASMA	20 ng/ml
RABEPRAZOLE	LCMS/MS	PLASMA	1 ng/mL
RAMIPRIL / RAMIPRILAT	LC-MS/MS	PLASMA	0.1 ng/mL
RAUBASINE	HPLC/EC	PLASMA	0.5 ng/ml
RENIN (PLASMA ACTIVITY)	RIA	PLASMA	Variable range
RENIN	RIA	PLASMA, SERUM	5 pg/ml
RIFAMPICINE	LC/MS/MS	PLASMA	5 ng/ml
RILMENDINE	GC/MS	PLASMA, URINE	0.2 ng/ml
RILMENDINE	GC/MS	DOG PLASMA	0.5 ng/ml
RILUZOLE	HPLC/UV	PLASMA	5 ng/ml
RILUZOLE	HPLC/UV	URINE	10 ng/ml

COMPOUND	TECHNIQUE	MATRIX	LLOQ
RILUZOLE	HPLC/UV	RAT, MONKEY PLASMA	25 ng/ml
RISPERIDONE + 9-HYDROXYRISPERIDONE	LC/MS/MS	PLASMA	0.1 ng/mL
ROSIGLITAZONE	LC-MS/MS	PLASMA	1 ng/mL
ROXYTHROMYCIN	HPLC/EC	PLASMA	0.1 µg/ml
SALBUTAMOL	LC/MS/MS	RAT PLASMA	100 pg/ml
SELEGILINE / DESMET, AMPHET, METAMPH	GC/MS	PLASMA	0.05 // 0.25 ng/ml
SELEGILINE / DESMET, AMPHET, METAMPH	GC/MS	URINE	1 ng/ml
SERTACONAZOLE	HPLC/UV	PLASMA, URINE	2.5 ng/ml
SERTACONAZOLE	HPLC/UV	DOG PLASMA	10 ng/ml
SERTRALINE	LC-MS/MS	PLASMA	2 ng/ml
SILDENAFIL	LC-MS/MS	PLASMA	1 ng/mL
SIMVASTATIN / SIMVASTATIN ACID	LC-MS/MS	RAT PLASMA	0.5/0.2 ng/ml
SIMVASTATIN / SIMVASTATIN ACID	LC-MS/MS	PLASMA	50 pg/mL
SIMVASTATIN / SIMVASTATIN ACID	LC-MS/MS	PLASMA	0.25 ng/mL
SOMASTATIN	ELISA	PLASMA	6 pg/mL
SOTALOL	HPLC/FLUO	PLASMA	20 ng/ml
SOTALOL	LC/MS/MS	PLASMA	10 ng/ml
SPARFLOXACINE	HPLC/UV	PLASMA	5 ng/ml
SPIRAMYCIN	HPLC/UV	PLASMA	50 ng/ml
SPIRONOLACTONE	HPLC/UV	PLASMA	4 ng/ml
STEROID HORMONE BINDING GLOBULIN (SHBG)	RIA	PLASMA	0.5 nmol/l
SULFAMETHOXAZOLE	HPLC/UV	PLASMA	2 µg/ml
SULFADIMETHOXINE	HPLC/UV	MILK	15.6 ng/ml
SULFATOXYMELATONINE	LC/MS/MS	TREE-SHREW PLASMA	10 ng/ml
SULPIRIDE	LCMS/MS	PLASMA	1 ng/ml
T4 (total) LEVOTHYROXINE	RIA	SERUM	24 ng/ml
T4 (free) LEVOTHYROXINE	RIA	SERUM	5 pg/ml
T3 (total) LIOTHYRONINE	RIA	SERUM	0.55 ng/ml
T3 (free) LIOTHYRONINE	RIA	SERUM	0.9 pg/ml
TACRINE / 1-OH-TACRINE	HPLC/FLUO	PLASMA	2 ng/ml
TAXOL (Paclitaxel)	HPLC/UV	RAT, MOUSE/BLOOD, PLASMA	50 ng/ml
TAXOL (Paclitaxel)	HPLC/UV	RAT PLASMA	100 ng/ml
TAXOL (Paclitaxel)	HPLC/UV	RAT BRAIN	50 ng/ml
TAXOL (Paclitaxel)	HPLC/UV	PLASMA	1 ng/ml
TEMOZOLOMIDE	LC-MS/MS	PLASMA	10 ng/ml
TESTOSTERONE + DIHYDROTESTERONE	LC/MS/MS	PLASMA	10 // 5 pg/ml
TESTOSTERONE	GC/MS	PLASMA	0.05 ng/ml
TESTOSTERONE	RIA	PLASMA	0.1 nmol/l
TESTOSTERONE	LC/MS/MS	PORCINE SERUM	0.1 ng/mL
TETRACYCLINE	HPLC/UV	MILK	0.08 µg/ml
TETRAZEPAM	HPLC/UV	PLASMA	2.5 ng/ml
THEOPHYLLINE	HPLC/UV	PLASMA	50 ng/ml
THROMBOXANE TXB2	EIA	SERUM	2 ng/mL
THYROTROPHIN	SEE TSH		
TICLOPIDINE	GC/MS	MONKEY PLASMA	5 ng/ml
TILUDRONIC ACID	HPLC/UV	PLASMA	50 ng/ml
TILUDRONIC ACID	HPLC/UV	URINE	200 ng/ml
TIZOXANIDE	LC/MS/MS	DOG, RABBIT PLASMA	100 ng/ml
TIZOXANIDE AND TIZOXANIDE GLUCURONIDE	LC/MS/MS	PLASMA	0.1 µg/ml
TIMP-1	EIA	PLASMA	1.56 ng/mL
TNF-alpha	EIA	PLASMA	15.6 pg/mL
TOLBUTAMIDE/4-HYDROXYTOLBUTAMIDE	HPLC/UV	PLASMA	50 ng/ml
TOLFENAMIC ACID	HPLC/UV	PIG, BOVINE TISSUES	20 ng/g
TOLFENAMIC ACID	HPLC/UV	BOVINE MILK	20 ng/ml
TRAMADOL + O-DESMETHYL TRAMADOL	HPLC/FLUO	PLASMA	1 ng/ml
TRAPIDIL AND DESETHYLTRAPIDIL	LC/MS/MS	PLASMA	5 ng/ml
TRIAMCINOLONE ACETONIDE	LC/MS/MS	PLASMA	5 pg/mL
TRIAMTERENE	HPLC/FLUO	PLASMA	1 ng/ml
TRICHLOROMETHIAZIDE	HPLC/UV	BOVINE PLASMA	5 ng/ml
TRIMEBUTINE (DESMETHYL)	LC/MS/MS	PLASMA	20 ng/mL

GLOBAL BIOANALYTICAL METHODS



COMPOUND	TECHNIQUE	MATRIX	LLOQ
TRIMEBUTINE + METABOLITE	HPLC/FLUO	PLASMA	1 ng/ml
TRIMETHOPRIM	HPLC/UV	BOVINE, SWINE, PLASMA, MILK	50 ng/ml
TRIMETHOPRIM	HPLC/UV	PLASMA	0.1 µg/ml
TSH (THYROTROPHIN)	RIA	SERUM	0.17 µiu/ml
TYRAMINE	HPLC/EC	PLASMA	0.5 ng/ml
VALPROIC ACID	LC/MS/MS	PLASMA	2 µg/ml
VALPROIC ACID	LC/MS/MS	DOG PLASMA	2 µg/ml
VALPROIC ACID	GC-MS	PLASMA	20 ng/mL
VASOACTIVE INTESTINAL PEPTIDE (VIP)	ELISA	PLASMA	35 pg/mL
VASOPRESSIN	SEE ADH		
sVCAM-1	EIA	PLASMA	4.57 pg/mL
VEGF-A	EIA	SERUM	15.6 pg/mL
(R) AND (S) VERAPAMIL	HPLC/FLUO	PLASMA	2 ng/ml
VERAPAMIL AND NORVERAPAMIL	LC/MS/MS	PLASMA	5 ng/ml
VINBLASTINE	HPLC/FLUO	RAT PLASMA	10 ng/ml
WARFARIN (FREE)	HPLC/FLUO	PLASMA	5 ng/ml
(R) AND (S) WARFARIN	HPLC/FLUO	PLASMA	10 ng/ml
WARFARIN R, S	LC-MS/MS	PLASMA	5 ng/ml
ZIDOVUDINE	HPLC/UV	PLASMA	10 ng/ml
ZIDOVUDINE	HPLC/UV	URINE	100 ng/ml

BIOMARKERS



The following tables contains selected Biomarkers, grouped by possible therapeutic area.

BONE DISEASE

COMPOUND	TECHNIQUE	MATRIX	LLOQ
CALCITONIN	RIA	SERUM	2 pg/mL
COLLAGEN I (CTX)	EIA	SERUM	492 pmol/l
COLLAGEN I TELOPEPTIDE (ICTP)	RIA	SERUM	1 ng/mL
OSTEOCALCIN	EIA	SERUM	4.7 ng/ml
PINP	RIA	SERUM	5 pg/mL

CARDIOVASCULAR

COMPOUND	TECHNIQUE	MATRIX	LLOQ
ALDOSTERONE	RIA	PLASMA	25 pg/mL
ANTIDIURETIC HORMONE (ADH) (VASOPRESSIN)	RIA	PLASMA	0.125 pg/tube
ANTIDIURETIC HORMONE (ADH) (VASOPRESSIN)	RIA	URINE	0.125 pg/tube
CYCLIC ADENOSINE MONOPHOSPHATE (cAMP)	RIA	PLASMA	0.05 ng/mL
CYCLIC ADENOSINE MONOPHOSPHATE (cAMP)	RIA	URINE	0.25 pmol/ml
CYCLIC GUANOSINE MONPHOSPHATE (cGMP)	RIA	PLASMA	0-1 nmol/l
CYCLIC GUANOSINE MONPHOSPHATE (cGMP)	RIA	URINE	0.5 nmol/l
ANGIOTENSIN I (ARP)	RIA	PLASMA	0.3 ng/ml
ANGIOTENSIN II	EIA	PLASMA	1 pg/ml
ANGIOTENSIN CONVERTING ENZYME (ACE)	RIA	SERUM	0-80 units
ATRIAL NATRIURETIC PEPTIDE (ANP)	RIA	PLASMA	3 pg/tube
ATRIAL NATRIURETIC PEPTIDE (ANP)	RIA	URINE	15 pg/ml
BIG ENDOTHELIN-1	ELISA	PLASMA	1.56 pg/mL
ENDOTHELIN-1	RIA	PLASMA	0.63 pg/tube
ENDOTHELIN-1	RIA	URINE	0.63 pg/tube
sICAM-1	EIA	PLASMA	1.86 pg/mL
RENIN	RIA	PLASMA, SERUM	5 pg/ml
RENIN (PLASMA ACTIVITY)	RIA	PLASMA	Variable range
VASOACTIVE INTESTINAL PEPTIDE (VIP)	ELISA	PLASMA	35 pg/mL
VASOPRESSIN	SEE ADH		
sVCAM-1	EIA	PLASMA	4.57 pg/mL
OXYTOCIN	ELISA	PLASMA	1.5 pg/mL

CNS

COMPOUND	TECHNIQUE	MATRIX	LLOQ
ADRENOCORTICOTROPIC HORMONE (ACTH)	RIA	PLASMA	16.8 pg/ml
DIHYDROXYPHENYL GLYCOL (DHPG, or DHPG / NORADRENALINE	HPLC/EC	PLASMA	100 pg/ml
DIHYDROXYPHENYL ACETIC ACID (DOPAC)	HPLC/EC	PLASMA	0.2 ng/ml
5-HYDROXY INDOLE ACETIC ACID (5-HIAA)	HPLC/EC	PLASMA	0.5 ng/ml
HOMOVANILLIC ACID (HVA)	HPLC/EC	PLASMA	0.5 ng/ml
NEUROPEPTIDE γ	RIA	PLASMA	3 pmol/mL
NORADRENALINE	SEE ADRENALINE		
NOREPINEPHRINE	SEE ADRENALINE		
PROLACTIN	RIA	PLASMA	65 μ iu/ml
OXYTOCIN	ELISA	PLASMA	1.5 pg/mL
SOMASTATIN	ELISA	PLASMA	6 pg/mL

BIOMARKERS



DIABETES

COMPOUND	TECHNIQUE	MATRIX	LLOQ
GLUCAGON	RIA	PLASMA	13 pg/ml
INSULIN	RIA	PLASMA	1 µiu/ml
INSULIN LIKE GROWTH FACTOR (IGF-1)	RIA	PLASMA	2 ng/mL
INSULIN LIKE GROWTH FACTOR BINDING PROTEIN-3 (IGFBP-3)	RIA	PLASMA	50 ng/mL
PEPTIDE-c	RIA	PLASMA	0.15 ng/ml

GI DISEASE

COMPOUND	TECHNIQUE	MATRIX	LLOQ
GASTRIN	RIA	PLASMA	190 µu/ml
MOTILIN	RIA	PLASMA	31.2 pmol/l
PANCREATIC POLYPEPTIDE	RIA	PLASMA	Variable range

HEMATOLOGY

COMPOUND	TECHNIQUE	MATRIX	LLOQ
GM-CSF	EIA	PLASMA	7.8 pg/mL

INFLAMMATION

COMPOUND	TECHNIQUE	MATRIX	LLOQ
CORTISOL	RIA	PLASMA	7.25 ng/ml
CORTISOL	RIA	URINE	7 nmol/l
CORTISOL	LC/MS/MS	PLASMA	10 ng/ml
CORTISOL / 6β - HYDROXYCORTISOL	LC/MS/MS	URINE (specific vs. 6 α -	1 // 2 ng/ml
CORTISOL + II-DEOXYCORTISOL	LC/MS/MS	PLASMA	5 // 1 ng/mL
IL-1b	EIA	PLASMA	3.9 pg/mL
IL-6	EIA	PLASMA	3.1 pg/mL
IL-8	EIA	PLASMA	30 pg/mL
IL-10	EIA	PLASMA	7.8 pg/mL
LTB4	EIA	PLASMA	3.9 pg/mL
LTE4	EIA	URINE	7.8 pg/mL
PROSTAGLANDIN E2	EIA	PLASMA	7.8 pg/mL
PROSTAGLANDIN (6keto PGF1α)	EIA	PLASMA	10 pg/ml
THROMBOXANE TXB2	EIA	SERUM	2 ng/mL
TNF-alpha	EIA	PLASMA	15.6 pg/mL

MEN'S HEALTH

COMPOUND	TECHNIQUE	MATRIX	LLOQ
TESTOSTERONE	GC/MS	PLASMA	0.05 ng/ml
TESTOSTERONE	RIA	PLASMA	0.1 nmol/l
TESTOSTERONE + DIHYDROTESTERONE	LC/MS/MS	PLASMA	10 // 5 pg/mL
OXYTOCIN	ELISA	PLASMA	1.5 pg/mL

NEPHROPATHY

COMPOUND	TECHNIQUE	MATRIX	LLOQ
α-GLUTATHION S-TRANSFERASE	EIA	URINE	1.25 µg/l
β2-MICROGLOBULIN	RIA	URINE	0.1 µg/l
N ACETYL β D GLUCOSAMINIDASE	COLORIMETRY	URINE	
p-GLUTATHION S-TRANSFERASE	EIA	URINE	3.12 µg/l

ONCOLOGY

COMPOUND	TECHNIQUE	MATRIX	LLOQ
TIMP-1	EIA	PLASMA	1.56 ng/mL
VEGF-A	EIA	SERUM	15.6 pg/mL

BIOMARKERS



THYROID

COMPOUND	TECHNIQUE	MATRIX	LLOQ
LEVOTHYROXIN	SEE T4		
T4 (total)LEVOTHYROXINE	RIA	SERUM	24 ng/ml
T4 (free)LEVOTHYROXINE	RIA	SERUM	5 pg/ml
T3 (total) LIOTHYRONINE	RIA	SERUM	0.55 ng/ml
T3 (free) LIOTHYRONINE	RIA	SERUM	0.9 pg/ml
THYROTROPHIN	SEE TSH		
TSH (THYROTROPHIN)	RIA	SERUM	0.17 µiu/ml

WOMEN'S HEALTH

COMPOUND	TECHNIQUE	MATRIX	LLOQ
ESTRADIOL / ESTRONE / NORETHISTERONE	LC/MS/MS	SERUM	estradiol/estrone 5 g/mL norethisterone 50 pg/mL
ESTRADIOL / ESTRONE	GC/MS	PLASMA	10 pg/ml
ESTRADIOL / ESTRONE	GC/MS	MONKEY PLASMA	40 pg/ml var. rge
ESTRADIOL / ESTRONE	GC/MS	MOUSE PLASMA	100 pg/ml var.rge
ESTRADIOL	RIA	PLASMA	20 pg/ml
ESTRADIOL	RIA	RAT PLASMA	200 pg/ml
ESTRADIOL	RIA	PLASMA, SERUM WITH	10 pg/ml
ESTRADIOL	LC/MS/MS	PLASMA	2 pg/mL
ESTRIOL	GC/MS	PLASMA	10 pg/ml
ESTRONE	SEE ESTRADIOL		
ESTRONE SULFATE	LC/MS/MS	PLASMA	0.05 ng/ml
ESTRONE SULFATE	RIA	PLASMA	0-75 ng/ml
FOLLICLE-STIMULATING HORMONE (FSH)	RIA	PLASMA	0.99 miu/ml
LUTEINIZING HORMONE (LH)	RIA	PLASMA	0.8 miu/ml
MEDROGESTONE + METABOLITE	GC/MS	PLASMA	0.1 // 1 ng/ml
MEDROGESTONE + 6 METABOLITES	HPLC/UV	URINE	50 ng/ml for most
MEDROXYPROGESTERONE	LC/MS/MS	PLASMA	0.1 ng/ml
NORETHINDRONE	SEE NORETHISTERONE		
NORETHISTERONE	GC/MS	PLASMA	0.1 ng/ml // 10 pg/ml
NORETHISTERONE	GC/MS	RABBIT PLASMA	0.1 ng/ml
PROGESTERONE	RIA	PLASMA	0.04 ng/ml
PROGESTERONE	HPLC/RIA	PLASMA	0.1 ng/ml
PROGESTERONE	LC/MS/MS	PLASMA	0.2 ng/ml
PROMEGESTONE	LC/MS/MS	PLASMA	0.10 ng/ml
STEROID HORMONE BINDING GLOBULIN (SHBG)	RIA	PLASMA	0.5 nmol/l
OXYTOCIN	ELISA	PLASMA	1.5 pg/mL