

Schedule of Accreditation

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United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

 Accredited to ISO 15189:2012	Cardiff and Vale University Health Board Issue No: 003 Issue date: 13 August 2019	
	Medical Biochemistry and Immunology Department University Hospital of Wales Heath Park Cardiff CF14 4XW	Contact: Alison Borwick Tel: +44 (0) 29 20746255 Fax: +44 (0) 29 20744883 E-Mail: Alison.Borwick@wales.nhs.uk Website: www.cardiff-mbit.wales.nhs.uk

Testing performed by the Organisation at the locations specified below

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details	Activity	Location code
Address Medical Biochemistry and Immunology Department University Hospital of Wales Heath Park Cardiff CF14 4XW Local contact Laboratory Service Manager: Mr Nigel Roberts	Clinical Biochemistry Therapeutic drug monitoring Endocrine biochemistry Antenatal screening activities Newborn screening activities Metabolic biochemistry examination activities Porphyrin services Trace element examination activities Immunology	UHW
Address Medical Biochemistry University Hospital Llandough Penlan Road CF62 2XX Local contact Laboratory Service Manager: Mr Nigel Roberts	Clinical Biochemistry Toxicology	UHL
Address Velindre Hospital Whitchurch Cardiff CF14 2TL Local contact Laboratory Service Manager: Mr Nigel Roberts	Clinical Biochemistry	Vel



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DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS	<u>Biochemistry examination activities for the purpose of clinical diagnosis</u>	In house documented methods incorporating manufacturers' instructions where relevant Abbott Architect. Measurement by colorimetric, turbidometric, immunoturbidometric, enzymatic, immunoassay, and indirect ion-selective electrode methods. UHW: three Ci16000 and three ISR 2000 Architect units linked to an APS pre-analytical track plus a standalone Ci16200 unit UHL: two Ci16200 and one ISR 2000 units Vel: a single c8000 unit	
Serum, plasma	Alcohol	LP-BIO-AETh	UHW, UHL
Serum, plasma	Alkaline phosphatase	LP-BIO-ALVALkP	UHW, UHL, VEL
Serum, plasma	Alanine Transaminase	LP-BIO-ALVALT	UHW, UHL, VEL
Serum, plasma	Ammonia	LP-BIO-ALV-Ammon	UHW, UHL, VEL
Serum, plasma	Aspartate Aminotransaminase (AST)	LP-BIO-ALVAST	UHW, UHL
Serum, plasma	Bicarbonate	LP-BIO-ACO2	UHW
Serum, plasma	Bile Acids	LP-BIO-ABILEACID	UHW



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)</u>	Abbott Architect. Measurement by colorimetric, turbidometric, immunoturbidometric, enzymatic, immunoassay, and indirect ion-selective electrode methods (cont'd)	
Serum, plasma	Bilirubin	LP-BIO-ALVTBil	UHW, UHL, VEL
Serum, plasma	Caeruloplasmin	LP-BIO-ACER	UHW
Serum, plasma	Cholesterol	LP-BIO-ALChol	UHW, UHL
Serum, plasma	Creatine Kinase	LP-BIO-ALCK	UHW, UHL
Serum, plasma	C-reactive protein	LP-BIO-ALVCRP	UHW, UHL
Serum, plasma	Lactate Dehydrogenase	LP-BIO-ALVLDH	UHW, UHL, VEL
Serum, plasma	Direct Bilirubin	LP-BIO-ALDBili	UHW, UHL
Serum, plasma	Gamma-Glutamyl Transferase	LP-BIO-ALVGGT	UHW, UHL, VEL
Serum, plasma	HDL-Cholesterol	LP-BIO-ALHDLUIt	UHW, UHL
Serum, plasma	Paracetamol	LP-BIO-APara	UHW, UHL
Serum, plasma	Salicylate	LP-BIO-ASal	UHW, UHL



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)</u>	Abbott Architect. Measurement by colorimetric, turbidometric, immunoturbidometric, enzymatic, immunoassay, and indirect ion-selective electrode methods. (cont'd)	
Serum, plasma	Triglyceride	LP-BIO-ALTrig	UHW, UHL
Serum, plasma	α -fetoprotein	LP-BIO-AAFPTM	UHW
Serum, plasma	Anti thyroid peroxidase (Anti-TPO)	LP-BIO-AATPO	UHW
Serum, plasma	β -Human chorionic gonadotrophin (β hCG)	LP-BIO-ABHCG	UHW
Serum, plasma	Carcino embryonic antigen	LP-BIO-ACEA	UHW
Serum, plasma	CA125	LP-BIO-ACA125	UHW
Serum, plasma	CA153	LP-BIO-ACA153	UHW
Serum, plasma	CA199	LP-BIO-ACA199	UHW
Serum, plasma	Free T3	LP-BIO-AFT3	UHW
Serum, plasma	Free T4	LP-BIO-AFT4	UHW, UHL
Serum, plasma	Follicle Stimulating Hormone	LP-BIO-AFSH	UHW
Serum, plasma	Luteinising Hormone	LP-BIO-ALH	UHW
Serum, plasma	Oestradiol	LP-BIO-AOestrad	UHW
Serum, plasma	Progesterone	LP-BIO-AProg	UHW
Serum, plasma	Cortisol	LP-BIO-ACort	UHW
Serum, plasma	Troponin I	LP-BIO-ALTrop	UHW, UHL



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)</u>	Abbott Architect. Measurement by colorimetric, turbidometric, immunoturbidometric, enzymatic, immunoassay, and indirect ion-selective electrode methods. (cont'd)	
Serum, plasma	Thyroid Stimulating Hormone (TSH)	LP-BIO-ATSH	UHW, UHL
Serum, plasma	Apolipoprotein A	LP-BIO-AAPOA1	UHW
Serum, plasma	Apolipoprotein B	LP-BIO-AAPOB	UHW
Serum, plasma	Lipoprotein (a)	LP-BIO-ALPa	UHW
Serum, plasma	25 OH Vitamin D	LP-BIO-EVItD	UHW
Serum, plasma, urine	Albumin	LP-BIO-ALVALbBCP	UHW, UHL
Serum, plasma, urine	Amylase	LP-BIO-ALAmy	UHW, UHL
Serum, plasma, urine	Calcium	LP-BIO-ALVCa	UHW, UHL
Serum, plasma, urine	Chloride	LP-BIO-ALVElect	UHW, UHL
Serum, plasma, urine	Creatinine: Jaffe method	LP-BIO-ALVCrea	UHW, UHL
Serum, plasma, urine	Magnesium	LP-BIO-ALVMg	UHW, UHL
Serum, plasma, urine	Phosphate	LP-BIO-ALVPO4	UHW, UHL
Serum, plasma, urine	Potassium	LP-BIO-ALVElect	UHW, UHL



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)</u>	Abbott Architect. Measurement by colorimetric, turbidometric, immunoturbidometric, enzymatic, immunoassay, and indirect ion-selective electrode methods. (cont'd)	
Serum, plasma, urine	Sodium	LP-BIO-ALVElect	UHW, UHL
Serum, plasma, urine	Urate	LP-BIO-ALUA	UHW, UHL
Serum, plasma, urine	Urea	LP-BIO-ALVUrea	UHW, UHL
Serum, plasma, urine, CSF	Glucose	LP-BIO-ALVGluc	UHW, UHL
Serum, plasma, urine, CSF	Total Protein	LP-BIO-ALVTP LP-BIO-ALUCSFPRO	UHW, UHL
Urine	Micro Albumin	LP-BIO-AUALB	UHW
Serum	Prostate Specific Antigen	LP-BIO-APSA	UHW
EDTA Plasma	Parathyroid Hormone	LP-BIO-APTH	UHW
Serum, EDTA Plasma	Dehydroepiandrosterone sulphate (DHEA-S)	LP-BIO-ADHEAS	UHW
Serum, EDTA Plasma, Lithium-Heparin Plasma	Sex hormone binding globulin (SHBG)	LP-BIO-ASHBG	UHW
Plasma/serum	Calculated free testosterone	By calculation LI-BIO-EFreeTestCort	UHW, UHL



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)</u>	Abbott Architect. Measurement by colourimetric, turbidometric, immunoturbidometric, enzymatic, immunoassay, and indirect ion-selective electrode methods. (cont'd)	
Urine	urine 5HIAA	LP-BIO-Su5HIAA	UHW, UHL
Serum/urine	calcium excretion.	LP-BIO-ALVCa	UHW, UHL
Plasma/serum	LDL which includes total cholesterol and triglycerides in its calculation as follows LDL-C= TChol- HDL- Trig/2.2	LP-BIO-ALChol	UHW, UHL
Plasma/serum	Adjusted calcium includes calcium and Albumin in its calculation- calculation used is Adjusted Ca= Ca+ (0.016x (39-Alb))	LP-BIO-ALVCa	UHW, UHL
Plasma/serum	eGFR (using the 4-variable MDRD equation) $eGFR(ml/min/1.73m^2) = 175 \times [serum\ creatinine(umol/L) \times 0.011312]^{-1.154} \times [age]^{-0.203} \times [0.742\ if\ female]$	LI-BIO-DBEstGFR LP-BIO-ALVCrea	UHW, UHL
Urine	Albumin-Creatinine Ratio, Protein-Creatinine Ratio - as we only report calculated ratios of these tests not the actual results of each analyte	LI-BIO-DBTPAlb	UHW, UHL
Plasma/serum/urine	TMP/GFR-	LI-BIO-DBHypoPO4	UHW, UHL
Plasma/serum	non-HDL cholesterol (total-HDL cholesterol)	LI-BIO-ALCHOL	UHW, UHL



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)</u>	Abbott Architect. Measurement by colourimetric, turbidometric, immunoturbidometric, enzymatic, immunoassay, and indirect ion-selective electrode methods. (cont'd)	
Serum	Cholinesterase Phenotype (calculated from cholinesterase activity and inhibition studies)	LP-BIO-TXPSEUD	UHL
Serum	L Amphetamine Fraction (calculated from recemic proportions of isomers)	LP-BIO-TXLFRAC	UHL
Plasma/serum	AKI	ED-BIO-NWISAKI	UHW, UHL
Plasma/serum/urine	Creatinine clearance	LP-BIO-ALVCREA	UHW, UHL
Urine	Phosphate excretion	LP-BIO-ALVPO4	UHW, UHL
Urine	Potassium excretion	LP-BIO-ALVElect	UHW, UHL
Urine	Sodium excretion	LP-BIO-ALVElect	UHW, UHL
Urine	Urate excretion	LP-BIO-ALUA	UHW, UHL
Urine	Microalbumin/creatinine ratio	LP-BIO-AUALB	UHW, UHL
Urine	Protein/creatinine ratio	LP-BIO-ALVUCSFPRO	UHW, UHL



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)</u>	Documented in-house methods and manufacturer's instructions for use	
Blood	Blood Gas Profiles: COHb Potassium Glucose	ABL800 Radiometer ABL700 Radiometer Amperometric, ion-sensitive electrode and potentiometric measurements LP-BIO-AABL800	UHW UHL
Blood	Ionised calcium	LP-BIO-AABL800	UHW, UHL
Blood, CSF	Lactate	LP-BIO-AABL800	UHW, UHL
EDTA Plasma, Lithium-Heparin Plasma	Haemoglobin A1c	TOSOH G8 Cation exchange HPLC LP-BIO-AHbA1c	UHW
Serum, plasma	Angiotensin converting enzyme (ACE)	Trinity Biotec kit on Abbott Architect by colourimetric method LP-BIO-LACE	UHL
Serum, plasma, urine	Osmolality	Advanced Instruments Osmometer Model 3320 Freezing point depression LP-BIO-TDOSMOL Osmo Pro Freezing point depression LP-BIO-TDOSMOL	UHL UHW



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HUMAN BODY FLUIDS (cont'd)	<u>Therapeutic drug monitoring examination activities for the purpose of clinical diagnosis</u>	Abbott Architect by Chemiluminescent Microparticle Immunoassay	
Serum	Carbamazepine	LP-BIO-ACarbamaz	UHW
Serum	Digoxin	LP-BIO-TDDigArch	UHW
Serum	Iron	LP-BIO-Alron	UHW
Serum	Lithium	LP-BIO-TDLiArch	UHW
Serum	Phenobarbitol	LP-BIO-APhenobarb	UHW
Serum	Phenytoin	LP-BIO-APhenytoin	UHW
Serum	Theophylline	LP-BIO-ATheophylline	UHW
Serum	Valproate	LP-BIO-AValproate	UHW
Whole blood	Ciclosporin	LP-BIO-TDCicloArch	UHW
Whole blood	Sirolimus	LP-BIO-TDSirolArch	UHW
Whole blood	Tacrolimus	LP-BIO-TDTacArch	UHW
	<u>Endocrine biochemistry examination activities for the purpose of clinical diagnosis</u>	Documented in-house methods and manufacturer's instructions for use	
Serum	Anti thyroglobulin	Abbott Architect Immunoassay LP-BIO-ATG	UHW
Serum, Lithium-Heparin Plasma, bloodspot, saliva	17 OH Progesterone	Waters Micromass Quattro Premier XE ABSCIEX 5500 MS by Tandem Mass Spectrometry LP-BIO-E17OHPTMSQP LP-BIO-E17OHPs&s LP-BIO-E17OHPbs	UHW



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HUMAN BODY FLUIDS (cont'd)	<u>Endocrine biochemistry examination activities for the purpose of clinical diagnosis (cont'd)</u>	Documented in-house methods and manufacturer's instructions for use	
Serum, Lithium-Heparin Plasma	Androstendione	Waters Micromass Quattro Premier by Tandem Mass Spectrometry (cont'd) LP-BIO-EAndros	UHW
Serum, Lithium-Heparin Plasma	Testosterone	LP-Bio-ETest	UHW
Urine	Free cortisol Dopamine	LP-BIO-EUFCortisol LP-BIO-EUDopTMS	UHW UHW
Urine	Metadrenalines	ABSCIEX 5500 MS by mass spectrometry LP-BIO-SUrineMetTMS	UHW
Saliva	Cortisol	LP-BIO-ESalCort Roche cobas e411 Electrochemiluminescence immunoassay	
EDTA plasma	Adrenocorticotrophin (ACTH)	LP-BIO-EACTH	UHW
Lithium-Heparin Plasma	Anti-Mullerian Hormone (AMH)	LP-BIO-EAMH	UHW
Serum, Lithium-Heparin Plasma	Growth Hormone (GH)	LP-BIO-EGH	UHW
Serum	TSH Receptor antibodies	LP-BIO-ETRAb	UHW
Serum, Lithium-Heparin plasma, EDTA plasma	C-peptide	C-peptide ELISA kit from Mercodia LP-BIO-EC Pep	



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HUMAN BODY FLUIDS (cont'd)	<u>Endocrine biochemistry examination activities for the purpose of clinical diagnosis (cont'd)</u>	Documented in-house methods and manufacturer's instructions for use	
Serum, Lithium-Heparin plasma, EDTA plasma	Insulin	Insulin ELISA kit from Mercodia LP-BIO-EInsulin	UHW
Serum, Lithium-Heparin Plasma	Prolactin	Beckman Access Immunoassay LP-BIO-EProLact	UHW
Serum	Thyroglobulin	Beckman DXi Immunoassay LP-BIO-ETgBeckman	UHW
Blood spot	TSH (not neonatal)	Perkin Elmer Autodelfia Immunoassay LP-BIO-EhTSHDowns	UHW
Serum	Procollagen peptide type 3 (P3NP)	Orion Diagnostica kit Radioimmunoassay LP-BIO-EP3NP	UHW
Urine	5-hydroxyindoleacetic acid	Agilent HPLC 1200 LP-BIO-Su5HIAA	UHW
Urine	Catecholamine investigations: - Urinary 4-hydroxy-3-methoxymandelic acid - Homovanillic acid	GCMS Agilent 6890 GC with 5975 Mass selective detector (MSD) GCMS/HPLC LP-BIO-SVMA	UHW



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HUMAN BODY FLUIDS (cont'd)	<u>Antenatal screening activities for the purpose of clinical diagnosis</u>	Documented in-house methods and manufacturer's instructions for use	UHW
Serum	2nd trimester Down's screen (QUAD test): • Human alpha-fetoprotein (AFP) • Intact human chorionic gonadotrophin (hCG) • Unconjugated estriol 1st trimester Down's screen (Combined test) • PAPP-A • Free β subunit of human chorionic gonadotrophin (Free hCGB) 2nd trimester Down's screen • Inhibin	Perkin Elmer Autodelphia Immunoassay LP-BIO-EAFP LP-BIO-EHCG LP-BIO-EUE3 ILP-BIO-EPAPP-A LP-BIO-EHCGB LP-BIO-EInhibinA	
Blood spot	<u>Newborn screening activities for the purpose of clinical diagnosis</u>	Documented in-house methods and manufacturer's instructions for use	
Blood spot	Screening for Cystic fibrosis using immunoreactive trypsinogen (IRT) test	Perkin Elmer Autodelphia Immunoassay LP-BIO-ENNeoIRT	
Blood spot	Screening for Hypothyroidism using TSH test	Perkin Elmer Autodelphia Immunoassay LP-BIO-ENEOTSH	UHW



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HUMAN BODY FLUIDS (cont'd)	<u>Newborn screening activities for the purpose of clinical diagnosis</u> (cont'd)	Documented in-house methods and manufacturer's instructions for use	
Blood spot	Sickle cell screen for Hb SS, Hb S beta thalassaemia (beta+, beta0 and Lepore), Hb S/HPFH, Hb SC, Hb SD Punjab, Hb SE and Hb SO Arab	Waters Xevo TQ MS Tandem Mass spectrometry LP-BIO-ENSCDTMS	UHW
Blood spot	Screening for Phenylketonuria by phenylalanine level	Waters Xevo TQ MS And Waters Xevo TQD Tandem Mass spectrometry	
Blood spot	Phenylketonuria monitoring	LP-BIO-ENDriedBSIEMs	UHW
Blood spot	Maple syrup urine disease screening for defects in the branched chain 2-keto acid dehydrogenase (BCKAD) complex	LP-BIO-ENPKUMSUD	UHW
Blood spot	Maple syrup urine disease – branch chain monitoring	LP-BIO-ENDriedBSIEMs	UHW
Blood spot	Medium Chain Acyl CoA Dehydrogenase Deficiency (MCADD) screen	LP-BIO-ENPKUMSUD	UHW
Blood spot	Isovaleric acidaemia screen for deficiency of isovaleryl-CoA dehydrogenase	LP-BIO-ENDriedBSIEMs	UHW
Blood spot	Homocystinuria screen for defects in the enzyme β -cystathionine synthase (CBS)	LP-BIO-ENDriedBSIEMs	UHW



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HUMAN BODY FLUIDS (cont'd)	<u>Newborn screening activities for the purpose of clinical diagnosis</u> (cont'd)	Documented in-house methods and manufacturer's instructions for use	UHW
Blood spot	Glutaric aciduria Type I screen for deficiency of the enzyme glutaryl-CoA dehydrogenase (GCDH)	Waters Xevo TQ MS And Waters Xevo TQD Tandem Mass spectrometry LP-BIO-ENDriedBSIEMs	
HUMAN BODY FLUIDS (cont'd)	<u>Metabolic biochemistry examination activities for the purpose of clinical diagnosis</u>	Documented in-house methods and manufacturer's instructions for use	
Blood spot	Acylcarnitines	Waters Xevo TQ MS Tandem Mass Spectrometry LP-BIOSAcylcarn	UHW
Blood spot	Homocysteine and Methionine	Waters Xevo TQS MS Tandem Mass Spectrometry LP-BIO-ENDriedBSHCY	UHW
Serum/plasma	Biotinidase	Pentra analyser Horiba Pentra 400 Enzymatic measurement LP-BIO-SBiotin	UHW
Urine	Glycosaminoglycans	LP-BIO-SuMPSPentra	
Fluoride oxalate plasma, EDTA plasma	Non-esterified fatty acids	LP-BIO-SNEFAPentra	
Serum/plasma/fluid	3-hydroxybutyrate	LP-BIO-SOHButyrate	



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HUMAN BODY FLUIDS (cont'd)	<u>Metabolic biochemistry examination activities for the purpose of clinical diagnosis (cont'd)</u>	Documented in-house methods and manufacturer's instructions for use	UHW
Urine	Oxalate	Pentra analyser Horiba Pentra 400C Enzymatic measurement LP-BIO-TDOxalPentra	
Urine EDTA plasma	Citrate Homocysteine	LP-BIO-TDCitPentra Abbott Architect ci 1600 by Chemiluminescent Microparticle Immunoassay LP-BIO-TDHcyArch	
Serum/plasma/urine	Methylmalonic acid	GCMS Agilent 6890 GC with 5975 MSD LP-BIO-SMMA	
Urine/fluid/CSF	Organic acids	LP-BIO-SOrgAcid	UHW
Plasma/serum	Very long chain fatty acids (VLCFA), including pristanic acid and phytanic acid	LP-BIO- SVLgChnFatAcid	UHW
Sweat	Chloride	Gibson and Cooke analyser Sweat collection by Iontrophoresis LP-BIO-SSweat Analysis of Sweat Chloride by Titration on Corning 925 Analyser LP-BIO-SSweatCl	UHW



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HUMAN BODY FLUIDS (cont'd)	<u>Metabolic biochemistry examination activities for the purpose of clinical diagnosis (cont'd)</u>	Documented in-house methods and manufacturer's instructions for use	
Faeces	Faecal calprotectin	Dynex DS2 Firefly ELISA enzyme immunoassay kit LP-BIO-SCalpro	UHW
Faeces	Faecal elastase	Dynex DS2 Schiebo ELISA kit	UHW
Serum/plasma	Vitamins A and E	LP-BIO-SElastase Agilent HPLC 1200 HPLC LP-BIO-SVitA&E	UHW
CSF	Xanthochromia	North Star Uvikon Spectrophotometry LP-BIO-SXanthNS	UHW
Lithium-Heparin plasma, CSF, urine	Amino acids	Biochrom AA analyser Ion exchange chromatography LP-BIO-ENAMino	UHW
Lithium-Heparin whole blood/bloodspot	Red Cell Galactose 1 Phosphate Uridyl Transferase Screen	Berthold technologies fluorimeter LP-BIO-ENGallPHT	UHW
Urine	pH	Hanna HI-2020 edge® Hybrid Multiparameter pH Meter LP-BIO-SpHMeter	UHW
Urine	Cysteine spot test	Qualitative visual spot test LP-BIO-SUCysteine	UHW



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HUMAN BODY FLUIDS (cont'd)	<u>Porphyria services activities for the purpose of clinical diagnosis</u>	Documented in-house methods and manufacturer's instructions for use	
Urine	Total urine porphyrin	Perkin Elmer Fluorimeter Spectro-fluorimetry LP-BIO-PTUP	UHW
EDTA whole blood	Plasma porphyrin screen	LP-BIO-PPLASSC	UHW
EDTA whole blood	Blood porphyrin screen	LP-BIO-PRBCSC	UHW
EDTA whole blood	Blood total porphyrin	LP-BIO-PRBCQ	UHW
Urine	Porphobilinogen	North star Spectrophotometer Ion exchange/ spectroscopy LP-BIO-PPBGINHSE	UHW
Urine	Aminolevulinic acid	LP-BIO-PALA	UHW
Urine/faeces	Porphyria precursor patterns: Uroporphyrin Heptacarboxylic porphyrin	Agilent HPLC 1100 LP-BIO-PHPLC	UHW
Faeces	Total faecal porphyrin	North star Spectrophotometer Solvent extraction spectroscopy LP-BIO-PFTP	UHW



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HUMAN BODY FLUIDS (cont'd)	<u>Immunology examination activities for the purpose of clinical diagnosis</u>	In house documented methods incorporating manufacturers' instructions where relevant	
Serum	Antinuclear antibodies	Launch Diagnostics Bee-line 220 Indirect immunofluorescence LP-BIO-IMANA	UHW
Serum	Anti-Centromere antibodies	Launch Diagnostics Bee-line 220 Indirect immunofluorescence LP-BIO-IMANA Orgentec ELISA kits distributed by Launch diagnostics kits (unless otherwise stated), on Best 2000 analyser	UHW
Serum	Double-stranded DNA antibodies	LP-BIO-IMDSDNA	UHW
Serum	Extractable nuclear antigen antibodies screen (Ro/La/Sm/RNP/Jo-1/Sc170)	LP-BIO-IMENA	UHW
Serum	Extractable nuclear antigen antibodies profile (Ro/La/Sm/RNP/Jo-1/Sc170)	LP-BIO-IMENA	UHW
Serum	Mutated citrullinated vimentin antibodies (MCV antibodies)	LP-BIO-IMMCV	UHW
Serum	Myeloperoxidase antibodies (MPO antibodies)	LP-BIO-IMMPO	UHW
Serum	Proteinase 3 antibodies (PR3 antibodies)	LP-BIO-IMPR3	UHW
Serum	Glomerular Basement Membrane Antibodies (GBM antibodies)	LP-BIO-IMGBM Org	UHW



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	<u>Immunology examination activities for the purpose of clinical diagnosis (cont'd)</u>	In house documented methods incorporating manufacturers' instructions where relevant Orgentec ELISA kits distributed by Launch diagnostics kits (unless otherwise stated), on Best 2000 analyser	
Serum	Cardiolipin antibodies (IgG and IgM)	LP-BIO-IMANTICL	UHW
Serum	Beta 2 Glycoprotein antibodies (IgG and IgM)	LP-BIO-IMBGP	UHW
Serum	Anti Tissue Transglutaminase IgG antibodies	LP-BIO-IMTTGIgG	UHW
Serum	Anti Tissue Transglutaminase IgA antibodies	LP-BIO-IMTTGIgA	UHW



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	Immunology examination activities for the purpose of clinical diagnosis (cont'd)	In house documented methods incorporating manufacturers' instructions where relevant	
Serum	C1 esterase inhibitor (functional)	Quidel ELISA kit on Best 2000 analyser	UHW
Serum	Anti-C1q antibodies	LP-BIO-IMC1Fest	UHW
Serum	Terminal Complement Component (TCC) (C5-9 complex)	LP-BIO-IMAC1q LP-BIO-IMTCC	UHW
Serum	Mannose Binding Lectin (MBL)	Bioporto ELISA kit on Best 2000 analyser LP-BIO-IMMBL	UHW
Serum	Anti-C1 esterase inhibitor antibodies (IgG, IgA and IgM)	In house manual ELISA assay read using the Biotek plate reader LP-BIO-IMAC1INH	UHW
Serum	Antibodies to Hib	Binding site ELISA kit on Best 2000 analyser LP-BIO-IMGAB	UHW
Serum	Antibodies to tetanus	Binding site ELISA kit on Best 2000 analyser LP-BIO-IMAC1INH	UHW
Serum	Antibodies to pneumococcus	Binding site ELISA kit on Best 2000 analyser LP-BIO-IMAC1INH	UHW
Serum	Crithidia antibodies	Manual method using Launch diagnostics slides	UHW
		Indirect immunofluorescence LP-BIO-IMTissAb	
Serum	Anti-neutrophil cytoplasmic antibody (ANCA)	Manual method using Inova kit	UHW
		Indirect immunofluorescence LP-BIO-IMANCA	



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	<u>Immunology examination activities for the purpose of clinical diagnosis (cont'd)</u>	In house documented methods incorporating manufacturers' instructions where relevant	
Serum	Endomysial antibodies (IgA)	Manual method using Inova kit Indirect immunofluorescence LP-BIO-IMTissAb	UHW
Serum	Liver autoantibodies: GPC gastric parietal cell antibodies LKM liver kidney microsome antibodies SMA smooth muscle antibodies AMA - anti-mitochondrial Antibodies	Manual method using Inova kit Indirect immunofluorescence LP-BIO-IMLiverAb	UHW
Serum	Adrenal antibodies	Manual method using Biodiagnostic slides Indirect immunofluorescence LP-BIO-IMTissAb	UHW
Serum	Pancreatic islet cell antibodies	Manual method using Biodiagnostic slides Indirect immunofluorescence LP-BIO-IMTissAb	UHW
Serum	Ovarian antibodies	Manual method using Biodiagnostic slides Indirect immunofluorescence LP-BIO-IMTissAb	UHW
Serum	Cardiac muscle antibodies	Manual method using Biodiagnostic slides Indirect immunofluorescence LP-BIO-IMTissAb	UHW



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<u>HUMAN BODY FLUIDS (cont'd)</u>	<u>Immunology examination activities for the purpose of clinical diagnosis (cont'd)</u>	In house documented methods incorporating manufacturers' instructions where relevant	
Serum	Skeletal muscle antibodies	Manual method using Biodiagnostic slides Indirect immunofluorescence LP-BIO-IMTissAb	UHW
Serum	Pemphigus antibodies	Manual method using Biodiagnostic slides Indirect immunofluorescence LP-BIO-IMTissAb	UHW
Serum	Pemphigoid antibodies	Manual method using Biodiagnostic slides Indirect immunofluorescence LP-BIO-IMTissAb	UHW
Serum	Complement haemolytic activity. Classical pathway haemolytic activity (CH50) Complement activity	In house Haemolytic assay LP-BIO-IMCH50	UHW
Serum	Complement haemolytic activity. Alternative pathway haemolytic activity (AP50) Complement activity	In house Haemolytic assay LP-BIO-IMCH50	UHW



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<u>HUMAN BODY FLUIDS (cont'd)</u>	<u>Immunology examination activities for the purpose of clinical diagnosis (cont'd)</u>	In house documented methods incorporating manufacturers' instructions where relevant. Siemens BNII analyser by nephelometry	
Serum	Complement C3 and C4 (C3/C4)	LP-BIO-IMC3C4	UHW
Serum	C1 esterase inhibitor (immunochemical)	LP-BIO-IMC1E1	UHW
Serum	Immunoglobulins (IgG/A/M)	LP-BIO-IMIGGAM	UHW
Serum	IgG subclasses: IgG1, IgG2, IgG3, IgG4	LP-BIO-IMIGGSUB	UHW
Serum	Rheumatoid factor	LP-BIO-IMRHFACT	UHW
Serum	Beta 2 microglobulin	LP-BIO-IMB2MICRO	UHW
Serum	Free light chains	LP-BIO-IMFreelite	UHW
Serum	High sensitivity C reactive protein	LP-BIO-IMHCRP	UHW
Serum/faeces	Alpha-1-antitrypsin	LP-BIO-IMAAT	UHW
Serum	Complement C1q	Manual method using C1q kit from The Binding Site Radial Immunodiffusion LP-BIO-IMRID	UHW
Serum	Complement C2	Manual method using C2 kit from The Binding Site Radial Immunodiffusion LP-BIO-IMRID	UHW



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HUMAN BODY FLUIDS (cont'd)	<u>Immunology examination activities for the purpose of clinical diagnosis (cont'd)</u>	In house documented methods incorporating manufacturers' instructions where relevant. Siemens BNII analyser by nephelometry (cont'd)	
Serum	Complement C5	Manual method using C5 kit from The Binding Site Radial Immunodiffusion LP-BIO-IMRID	UHW
Serum	Complement C6	Manual method using C6 kit from The Binding Site Radial Immunodiffusion LP-BIO-IMRID	UHW
Serum	Complement C7	Manual method using C7 kit from The Binding Site Radial Immunodiffusion LP-BIO-IMRID	UHW
Serum	Complement C8	Manual method using C8 kit from The Binding Site Radial Immunodiffusion LP-BIO-IMRID	UHW
Serum	Complement C9	Manual method using C9 kit from The Binding Site Radial Immunodiffusion LP-BIO-IMRID	UHW



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HUMAN BODY FLUIDS (cont'd)	<u>Immunology examination activities for the purpose of clinical diagnosis (cont'd)</u>	In house documented methods incorporating manufacturers' instructions where relevant. Siemens BNII analyser by nephelometry (cont'd)	
Serum	Factor H	Manual method using Factor H kit from The Binding Site Radial Immunodiffusion LP-BIO-IMRID	UHW
Serum	Factor I	Manual method using Factor I kit from The Binding Site Radial Immunodiffusion LP-BIO-IMRID	UHW
Serum	Factor B	Manual method using Factor B kit from The Binding Site Radial Immunodiffusion LP-BIO-IMRID	UHW
Serum	IgD	Manual method using IgD kit from The Binding Site Radial Immunodiffusion LP-BIO-IMRID	UHW
	Immunophenotyping of CD markers / antigens to diagnose and monitor Primary Immunodeficiencies and monitor HIV patients:	Beckman Coulter FC500 Flow cytometry	UHW
EDTA whole blood	Lymphocyte phenotypes (T,B and NK cells).	LP-BIO-IMLymph	UHW
EDTA whole blood	B Cell memory phenotyping	LP-BIO-IMPHENO	UHW
EDTA whole blood	Naïve T Cells	LP-BIO-IMNAIVE	UHW



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HUMAN BODY FLUIDS (cont'd)	<u>Immunology examination activities for the purpose of clinical diagnosis (cont'd)</u>	In house documented methods incorporating manufacturers' instructions where relevant.	
EDTA whole blood	TCR alpha beta double negative T cells	LP-BIO-IMTCRAB	UHW
EDTA whole blood	Major histocompatibility complex (MHC) Class 1 and 2 expression	SOP - LP-BIO-IMMHC	UHW
EDTA whole blood	Adhesion markers (CD11a/11b/11c/18)	LP-BIO-INIADMA	UHW
EDTA whole blood	T cell receptor (TCR) V beta spectrotyping	LP-BIO-IMTCRAB	UHW
EDTA whole blood	CD40 expression on B lymphocytes	LP-BIO-IMCD40	UHW
EDTA whole blood	BTK on monocytes	LP-BIO-IMBTK	UHW
Heparin Whole blood	Lymphocyte proliferation	LP-BIO-IMDRAQ5	UHW
Heparin Whole blood	Neutrophil function (DHR)	LP-BIO-IMDHR	UHW
Heparin Whole blood	L-selectin (CD62 ligand) shedding	LP-BIO-IMTOLL	UHW
Heparin Whole blood	CD40 Ligand expression (CD4+ T cells)	LP-BIO-IMCD4OLG	UHW
Serum	Total IgE	Phadia 250 Fluorescence enzyme immunoassay LP-BIO-IMTOTIGE	UHW



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HUMAN BODY FLUIDS (cont'd)	<u>Immunology examination activities for the purpose of clinical diagnosis (cont'd)</u>	In house documented methods incorporating manufacturers' instructions	UHW
Serum	Specific IgE as listed in the 2014 catalogue and below	Phadia 250 Fluorescence enzyme immunoassay LP-BIO-IMSPECIGE	
	Abachi wood dust Abalone Acacia <i>Acarus siro</i> <i>Acremonium kiliense</i> ACTH (Adrenocorticotrophic hormone) Alfalfa Alkalase Allspice Almond <i>Alternaria alternata</i> American beech Amoxicilloyl Ampicilloyl Anchovy Anisakis Anise Apple Apricot Artemia salina, fish feed Ascarius Asparagus <i>Aspergillus flavus</i> <i>Aspergillus fumigatus</i> <i>Aspergillus niger</i>		



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HUMAN BODY FLUIDS (cont'd)	<u>Immunology examination activities for the purpose of clinical diagnosis (cont'd)</u>	In house documented methods incorporating manufacturers' instructions	UHW
Serum (cont'd)	Specific IgE as listed in the 2014 catalogue and below (cont'd)	Phadia 250 Fluorescence enzyme immunoassay LP-BIO-IMSPECIGE	
	<i>Aspergillus terreus</i> Aubergine, eggplant <i>Aureobasidium pullulans</i> Australian pine Avocado Bahia Grass Bald Cypress Bamboo Shoot Banana Barley Barley Basil Bay leaf Bayberry Beef Beetroot Berlin Beetle Bermuda Grass Black Pepper Blackberry Blomia tropicalis Blood worm Blue mussel Blue vetch Blueberry Botrytis cinerea		



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HUMAN BODY FLUIDS (cont'd)	<u>Immunology examination activities for the purpose of clinical diagnosis (cont'd)</u>	In house documented methods incorporating manufacturers' instructions	UHW
Serum (cont'd)	Specific IgE as listed in the 2014 catalogue and below (cont'd)	Phadia 250 Fluorescence enzyme immunoassay LP-BIO-IMSPECIGE	
	Bougainvillea		
	Box-elder		
	Brazil nut		
	Broccoli		
	Brome grass		
	Brussel Sprouts		
	Buckwheat		
	Budgerigar droppings		
	Budgerigar feathers		
	Bumblebee		
	Cabbage		
	Cacao		
	Camomile		
	Canary bird droppings		
	Canary bird feathers		
	Canary grass		
	Candida albicans		
	Carambola		
	Caraway		
	Cardamon		
	Careless weed		
	Carob (E410)		
	Carrot		
	Cashew nut		
	Cat dander		
	Cat fish		



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HUMAN BODY FLUIDS (cont'd)	<u>Immunology examination activities for the purpose of clinical diagnosis (cont'd)</u>	In house documented methods incorporating manufacturers' instructions	UHW
Serum (cont'd)	Specific IgE as listed in the 2014 catalogue and below (cont'd)	Phadia 250 Fluorescence enzyme immunoassay LP-BIO-IMSPECIGE	
	Cauliflower		
	Cedar		
	Cedar elm		
	Cefaclor		
	Celery		
	<i>Chaetomium globosum</i>		
	Cheese, cheddar type		
	Cheese, mold type		
	Cherry		
	Chestnut		
	Chick pea		
	Chicken		
	Chicken droppings		
	Chicken feathers		
	Chicken, serum proteins		
	Chilipepper		
	Chinchilla epithelium		
	Chloramin T		
	Chlorhexidine		
	Chub mackerel		
	Chymopapain		
	Cinnamon		
	<i>Cladosporium herbarum</i>		
	Clam		
	Clove		



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HUMAN BODY FLUIDS (cont'd)	<u>Immunology examination activities for the purpose of clinical diagnosis (cont'd)</u>	In house documented methods incorporating manufacturers' instructions	UHW
Serum (cont'd)	Specific IgE as listed in the 2014 catalogue and below (cont'd) Cochineal extract (Carmine red) (E120) Cocklebur Cockroach, American Cockroach, German Cockroach, Oriental Cocksfoot Coconut Coffee Common millet Common pigweed Common ragweed Common reed Common silver birch Common wasp (Yellow jacket) Coriander Cotton seed Cotton, crude fibers Cottonwood Cow dander Cow's whey Crab Cranberry Crayfish Cucumber Cultivated oat	Phadia 250 Fluorescence enzyme immunoassay LP-BIO-IMSPECIGE	



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HUMAN BODY FLUIDS (cont'd)	<u>Immunology examination activities for the purpose of clinical diagnosis (cont'd)</u>	In house documented methods incorporating manufacturers' instructions	UHW
Serum (cont'd)	Specific IgE as listed in the 2014 catalogue and below (cont'd)	Phadia 250 Fluorescence enzyme immunoassay LP-BIO-IMSPECIGE	
	Cultivated rye Cultivated wheat Curry (Santa Maria) <i>Curvularia lunata</i> Cypress Dandelion Daphnia, fish feed Date Deer epithelium <i>Dermatophagoides farinae</i> <i>Dermatophagoides microceras</i> <i>Dermatophagoides pteronyssinus</i> Dill Dog dander Dog fennel Douglas fir Duck feathers Echinococcus Eel Egg Egg white Egg yolk Elder Elk/moose meat Elm		



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HUMAN BODY FLUIDS (cont'd)	<u>Immunology examination activities for the purpose of clinical diagnosis (cont'd)</u>	In house documented methods incorporating manufacturers' instructions	UHW
Serum (cont'd)	Specific IgE as listed in the 2014 catalogue and below (cont'd) <i>Epicoccum purpurascens</i> Ethylene oxide Eucalyptus, Gum-tree <i>Euroglyphus maynei</i> European ash European hornet European Paper Wasp False oat-grass False ragweed Fennel seed Fennel, fresh Fenugreek Ferret epithelium Ficus Fig Finch feathers Fire ant Firebush (Kochia) Fish (cod) Formaldehyde/Formalin Fox epithelium Foxtail millet <i>Fusarium proliferatum</i> (<i>F. moniliforme</i>) Gal-alpha-1,3-Gal Thyroglobulin, bovine Garlic	Phadia 250 Fluorescence enzyme immunoassay LP-BIO-IMSPECIGE	



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HUMAN BODY FLUIDS (cont'd)	<u>Immunology examination activities for the purpose of clinical diagnosis (cont'd)</u>	In house documented methods incorporating manufacturers' instructions	UHW
Serum (cont'd)	Specific IgE as listed in the 2014 catalogue and below (cont'd)	Phadia 250 Fluorescence enzyme immunoassay LP-BIO-IMSPECIGE	
	Gelatin bovine Gerbil epithelium Giant ragweed Ginger Gluten <i>Glycyphagus domesticus</i> Goat epithelium Goat milk Goldenrod Goose feathers Goosefoot, Lamb's quarters Grain weevil Grape Grapefruit Green bean Green coffee bean Green nimitti Green pepper (unripe seed) Greer Labs., Inc. Grey alder Grouper Guar, guar gum (E412) Guava Guinea pig epithelium Gulf flounder Gum arabic (E414)		



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	<u>Immunology examination activities for the purpose of clinical diagnosis (cont'd)</u>	In house documented methods incorporating manufacturers' instructions	UHW
Serum (cont'd)	Specific IgE as listed in the 2014 catalogue and below (cont'd)	Phadia 250 Fluorescence enzyme immunoassay LP-BIO-IMSPECIGE	
	Hackberry		
	Haddock		
	Hake		
	Halibut		
	Hamster epithelium		
	Hazel		
	Hazel nut		
	Herring		
	Hexahydrophthalic anhydrid		
	Hollister-Stier Labs.		
	Honey		
	Honeybee		
	Hop (fruit cone)		
	Horn beam		
	Horse chestnut		
	Horse dander		
	Horse fly		
	Horse meat		
	Horse, serum proteins		
	Insulin bovine		
	Insulin human		
	Insulin porcine		
	Isocyanate HDI (Hexamethylene diisocyanate)		



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	<u>Immunology examination activities for the purpose of clinical diagnosis (cont'd)</u>	In house documented methods incorporating manufacturers' instructions	UHW
Serum (cont'd)	Specific IgE as listed in the 2014 catalogue and below (cont'd)	Phadia 250 Fluorescence enzyme immunoassay LP-BIO-IMSPECIGE	
	Isocyanate MDI (Diphenylmethane diisocyanate) Isocyanate TDI (Toluene diisocyanate) Ispaghula Italian/Mediterranean/ Funeral cypress Jack fruit Jack mackerel, Scad Japanese cedar Japanese Hop Japanese millet Johnson grass Jujube Kiwi Langust (spiny lobster) Latex Lemon Lentil <i>Lepidoglyphus destructor</i> Lettuce Lima bean Lime Linden Linseed Litchi		



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HUMAN BODY FLUIDS (cont'd)	<u>Immunology examination activities for the purpose of clinical diagnosis (cont'd)</u>	In house documented methods incorporating manufacturers' instructions	UHW
Serum (cont'd)	Specific IgE as listed in the 2014 catalogue and below (cont'd)	Phadia 250 Fluorescence enzyme immunoassay LP-BIO-IMSPECIGE	
	Lobster		
	Lovage		
	Lupin		
	Lupin Seed		
	Macadamia nut		
	Mace		
	Mackerel		
	Maize, Corn		
	Maize, Corn		
	<i>Malassezia spp.</i>		
	Maleic anhydrid		
	Malt		
	Mandarin (tangerine, clementine, satsumas)		
	Mango		
	Maple leaf sycamore, London plane		
	Mare's milk		
	Marguerite, Ox-eye daisy		
	Marjoram		
	Maxatase		
	MBP (maltose binding protein)		
	Meadow fescue		
	Meadow foxtail		
	Meadow grass, Kentucky blue		
	Mealworm		
	Mediterranean flour moth		



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	<u>Immunology examination activities for the purpose of clinical diagnosis (cont'd)</u>	In house documented methods incorporating manufacturers' instructions	UHW
Serum (cont'd)	Specific IgE as listed in the 2014 catalogue and below (cont'd) Megrim Melaleuca, Cajeput-tree Melon Mesquite Methyltetrahydroptalic anhydrid Milk Milk, boiled Mink epithelium nAmb a 1 Ragweed nAna c 2 Bromelain, Pineapple nArt v 1 Mugwort nArt v 3 LTP, Mugwort nASP o 21 alpha-amylase nBos d 4 alpha-lactalbunin, Milk nBos d 5 beta-lactoglobulin, Milk nBos d 6 BSA, Cow nBos d 8 Casein, Milk nBos d Lactoferrin, Milk nCan f 3 Dog serum albumin nCar p 1 Papain, Papaya nCor a 9, Hazel nut nCup a 1 Cypress nCyd d 1 Bermuda grass nDer p 1 House dust mite	Phadia 250 Fluorescence enzyme immunoassay LP-BIO-IMSPECIGE	



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	<u>Immunology examination activities for the purpose of clinical diagnosis (cont'd)</u>	In house documented methods incorporating manufacturers' instructions	UHW
Serum (cont'd)	Specific IgE as listed in the 2014 catalogue and below (cont'd) Nettle nFel d 2 Cat serum albumin nGal d 1 Ovomucoid, Egg nGal d 2 Ovalbumin, Egg nGal d 3 Conalbumin, Egg nGal d 4 Lysozyme, Egg nGly m 5 beta-conglycinin, Soy nGly m 6 Glycinin nOle e 7 LTP, Olive nPhl p 4 Timothy nSal k1 Saltwort nSus s Pepsin, Swine nSus s Pig serum albumin, Swine Nutmeg Oak Oat Octopus Oil Palm Olive Olive (black, fresh) Onion Orange Orange roughy Oregano Oyster	Phadia 250 Fluorescence enzyme immunoassay LP-BIO-IMSPECIGE	



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HUMAN BODY FLUIDS (cont'd)	<u>Immunology examination activities for the purpose of clinical diagnosis (cont'd)</u>	In house documented methods incorporating manufacturers' instructions	UHW
Serum (cont'd)	Specific IgE as listed in the 2014 catalogue and below (cont'd)	Phadia 250 Fluorescence enzyme immunoassay LP-BIO-IMSPECIGE	
	Pacific squid Paloverde Papaya Paper wasp Paprika, Sweet pepper Parakeet droppings Parakeet feathers Parakeet serum Parrot feathers Parsley Passion fruit Pea Peach Peanut Pear Pecan nut Pecan, Hickory <i>Penicillium chrysogenum</i> (<i>P. notatum</i>) <i>Penicillium glabrum</i> Penicilloyl G Penicilloyl V Peppertree Persimon (kaki fruit, sharon) Pholcodine <i>Phoma betae</i>		



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HUMAN BODY FLUIDS (cont'd)	<u>Immunology examination activities for the purpose of clinical diagnosis (cont'd)</u>	In house documented methods incorporating manufacturers' instructions	UHW
Serum (cont'd)	Specific IgE as listed in the 2014 catalogue and below (cont'd)	Phadia 250 Fluorescence enzyme immunoassay LP-BIO-IMSPECIGE	
	Phthalic anhydride Pigeon droppings Pigeon feathers Pine Pine nut, pignoles Pineapple Pistachio <i>Pityrosporum orbiculare</i> (syn. <i>Malassezia</i>) Plaice Plantain (English), Ribwort Plum Pollock Poppy seed Pork Potato Privet Protamine Pumpkin Pumpkin seed Queen palm Quinoa Rabbit <i>Rabbit epithelium</i> <i>Rabbit, serum proteins</i> <i>Rabbit, urine proteins</i>		



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	<u>Immunology examination activities for the purpose of clinical diagnosis (cont'd)</u>	In house documented methods incorporating manufacturers' instructions	UHW
Serum (cont'd)	Specific IgE as listed in the 2014 catalogue and below (cont'd) <i>rAct d 8 PR-10, Kiwi</i> <i>rAlt a 1</i> <i>rAna o Cashew nut</i> <i>Rape</i> <i>Rape seed</i> <i>rApi g 1.01 PR-10, Celery</i> <i>rApi m 1 Phospholipase A2, Honey bee</i> <i>rAra h 1 Peanut</i> <i>rAra h 2 Peanut</i> <i>rAra h Peanut</i> <i>rAra h 8 PR-10, Peanut</i> <i>rAra h 9 LTP, Peanut</i> <i>rAsp f 1</i> <i>rAsp f 2</i> <i>rAsp f</i> <i>rAsp f 4</i> <i>rAsp f 6</i> <i>Raspberry</i> <i>Rat epithelium</i> <i>Rat epithelium, serum proteins and urine proteins</i> <i>Rat serum proteins</i> <i>Rat urine proteins</i> <i>rBer e 1 Brazil nut</i> <i>rBet v 1 PR-10, Birch</i> <i>rBet v 2 Profilin, Birch</i>	Phadia 250 Fluorescence enzyme immunoassay LP-BIO-IMSPECIGE	



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	<u>Immunology examination activities for the purpose of clinical diagnosis (cont'd)</u>	In house documented methods incorporating manufacturers' instructions	UHW
Serum (cont'd)	Specific IgE as listed in the 2014 catalogue and below (cont'd) rBet v 2, rBet v 4 Birch rBet v 4 Birch rBet v 6 Birch rCan f 1 Dog rCan f 2 Dog rCan f 5 Dog rCor a 1 PR-10, Hazel nut rCor a 8 LTP, Hazel nut rCor a 14, Hazel nut rCyp c 1 Carp rDer p 10 Tropomyosin, House dust mite rDer p 2 House dust mite Red cedar Red currant Red kidney bean Red mulberry Red snapper Redtop, Bentgrass Reindeer epithelium rEqu c 1 Horse rFel d 1 Cat rFel 4 Cat rGad c 1 Cod rGly m 4 PR-10, Soy rHev b 1 Latex	Phadia 250 Fluorescence enzyme immunoassay LP-BIO-IMSPECIGE	



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	<u>Immunology examination activities for the purpose of clinical diagnosis (cont'd)</u>	In house documented methods incorporating manufacturers' instructions	UHW
Serum (cont'd)	Specific IgE as listed in the 2014 catalogue and below (cont'd) rHev b 11 Latex rHev b 3 Latex rHev b 5 Latex rHev b 6.01 Latex rHev b 6.02 Latex rHev b 8 Profilin, Latex rHev b 9 Latex Rhizopus nigricans Rice rJug r 1 Walnut rJug r 3 LTP, Walnut rMal d 1 PR-10, Apple rMal d 3 LTP, Apple Rose hip Rough marshelder rOle e 1 Olive rOle e 9, Olive rPar j2 LTP, Wall pellitory rPen a 1 Tropomyosin, Shrimp rPHL p 1 Timothy rPHL p 1, rPhl p 5b Timothy rPHL p 11 Timothy rPHL p 12 Profilin, Timothy rPHL p 2 Timothy rPHL p 5b Timothy rPHL p 6 Timothy	Phadia 250 Fluorescence enzyme immunoassay LP-BIO-IMSPECIGE	



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	<u>Immunology examination activities for the purpose of clinical diagnosis (cont'd)</u>	In house documented methods incorporating manufacturers' instructions	UHW
Serum (cont'd)	Specific IgE as listed in the 2014 catalogue and below (cont'd) rPHL p 7 Timothy rPhl p 7, rPhl p 12 Timothy rPla a 1 Maple leaf sycamore, London plane rPla l 1 Plantain rPol d 5 European Paper Wasp rPru p 1 PR-10, Peach rPru p LTP, Peach rPru p 4 Profilin, Peach rTri a 14 LTP, Wheat rTri a 14 LTP, Wheat Russian olive rVes v 1 Phospholipase A1, Common wasp rVes v 5 Common wasp Rye Rye-grass Saffron Sage Salmon Salt grass Saltwort (prickly), Russian thistle Sardine (Pilchard) Sardine, Japanese Pilchard Savinase Scale, Lenscale	Phadia 250 Fluorescence enzyme immunoassay LP-BIO-IMSPECIGE	



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HUMAN BODY FLUIDS (cont'd)	<u>Immunology examination activities for the purpose of clinical diagnosis (cont'd)</u>	In house documented methods incorporating manufacturers' instructions	UHW
Serum (cont'd)	Specific IgE as listed in the 2014 catalogue and below (cont'd)	Phadia 250 Fluorescence enzyme immunoassay LP-BIO-IMSPECIGE	
	Scallop		
	Scotch broom		
	Seminal fluid		
	Sesame seed		
	Setomelanomma rostrate (Helminthosporium halodes)		
	Sheep epithelium		
	Sheep milk		
	Sheep sorrel		
	Sheep whey		
	Shrimp		
	Silk		
	Silk waste		
	Snail		
	Sole		
	Soybean		
	Spelt wheat		
	Spinach		
	Spruce		
	Squid		
	Staphylococcal enterotoxin A		
	Staphylococcal enterotoxin B		
	Staphylococcal enterotoxin C		
	Staphylococcal enterotoxin TSST		
	Stemphylium herbarum (S. botryosum)		



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HUMAN BODY FLUIDS (cont'd)	<u>Immunology examination activities for the purpose of clinical diagnosis (cont'd)</u>	In house documented methods incorporating manufacturers' instructions	UHW
Serum (cont'd)	Specific IgE as listed in the 2014 catalogue and below (cont'd)	Phadia 250 Fluorescence enzyme immunoassay LP-BIO-IMSPECIGE	
	Strawberry		
	Streptavidin		
	Sugar-beet		
	Sugar-beet seed		
	Sunflower		
	Sunflower seed		
	Suxamethonium (succinylcholine)		
	Sweet chestnut		
	Sweet gum		
	Sweet potato		
	Sweet vernal grass		
	Swine epithelium		
	Swine, urine proteins		
	Swordfish		
	Tarragon		
	Tea		
	Tetanus toxoid		
	Tetramin, fish feed		
	Thyme		
	Tilapia		
	<i>Tilletia tritici</i>		
	Timothy grass		
	Tobacco leaf		
	Tomato		
	Tragacanth (E41)		



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HUMAN BODY FLUIDS (cont'd)	<u>Immunology examination activities for the purpose of clinical diagnosis (cont'd)</u>	In house documented methods incorporating manufacturers' instructions	UHW
Serum (cont'd)	Specific IgE as listed in the 2014 catalogue and below (cont'd) <i>Trichoderma viride</i> <i>Trichophyton mentagrophytes</i> var. <i>goetzii</i> <i>Trichophyton mentagrophytes</i> var. <i>interdigitale</i> <i>Trichophyton rubrum</i> <i>Trichosporon pullulans</i> Trimellitic anhydride, TMA Trout Tuna Turkey feathers Turkey meat <i>Tyrophagus putrescentiae</i> Ulocladium chartarum Vanilla Velvet grass Virginia live oak Wall Pellitory Wall Pellitory Walleye pike Walnut Walnut Watermelon Western ragweed Wheat White ash White bean	Phadia 250 Fluorescence enzyme immunoassay LP-BIO-IMSPECIGE	



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HUMAN BODY FLUIDS (cont'd)	<u>Immunology examination activities for the purpose of clinical diagnosis (cont'd)</u>	In house documented methods incorporating manufacturers' instructions	
Serum (cont'd)	Specific IgE as listed in the 2014 catalogue and below (cont'd)	Phadia 250 Fluorescence enzyme immunoassay LP-BIO-IMSPECIGE	UHW
	White hickory White pine White-faced hornet Whitefish (Inconnu) Wild rye grass Willow Wormwood Yeast Yellow dock Yellow hornet		
Serum	ISAC Allergy Microarray testing. Repertoire as listed below: Egg White Ovomucoid Egg White Ovalbumin Egg White Conalbumin/Ovotransferrin Egg yolk / chicken meat Livetin/Serum albumin Cow's milk Alpha-lactalbumin Cow's milk Beta-lactoglobulin Cow's milk and meat Serum albumin Cow's milk Casein	Phadia Microarray Semi-quantitative measurement of specific IgE using Immuno Sorbant Allergen chip LP-BIO-IMISAC	UHW



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	<u>Immunology examination activities for the purpose of clinical diagnosis (cont'd)</u>	In house documented methods incorporating manufacturers' instructions	UHW
Serum (cont'd)	ISAC Allergy Microarray testing. Repertoire as listed below: (cont'd) Cow's milk Transferrin Cpd Parvalbumin Shrimp Tropomyosin Shrimp Arginine kinase Shrimp Sarcoplasmic Ca-binding protein Cashew nut Storage protein, 11S globulin Brazil nut Storage protein, 2S albumin Hazlenut PR-10 protein Hazlenut Lipid transfer protein (nsLTP) Hazlenut Storage protein, 11S globulin Walnut Storage protein, 2S albumin Walnut Storage protein, 7S globulin Walnut Lipid transfer protein (nsLTP) Sesame seed Storage protein, 2S albumin Peanut Storage protein, 7S globulin Peanut Storage protein, Conglutin Peanut Storage protein, 11S globulin Peanut Storage protein, Conglutin Peanut PR-10 protein	Phadia Microarray Semi-quantitative measurement of specific IgE using Immuno Sorbant Allergen chip LP-BIO-IMISAC	



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HUMAN BODY FLUIDS (cont'd)	<u>Immunology examination activities for the purpose of clinical diagnosis (cont'd)</u>	In house documented methods incorporating manufacturers' instructions	UHW
Serum (cont'd)	ISAC Allergy Microarray testing. Repertoire as listed below: (cont'd) Peanut Lipid transfer protein (nsLTP) Soybean PR-10 protein Soybean Storage protein, Beta-conglycinin Soybean Storage protein, Glycinin Buckwheat Storage protein, 2S) Wheat albumin Lipid transfer protein (nsLTP Wheat Omega-5 gliadin Kiwi Thaumatine-like protein Kiwi PR-10 protein Celery PR-10 protein Apple PR-10 protein Peach PR-10 protein Peach Lipid transfer protein (nsLTP) Bermuda Grass, Grass group 1 Timothy Grass Grass group 1 Timothy Grass, Grass group 2 Timothy grass, Grass group 5 Timothy grass Polcalcin Timothy grass Profilin Alder PR-10 protein BirchPR-10 protein Birch Profilin Birch Polcalcin	Phadia Microarray Semi-quantitative measurement of specific IgE using Immuno Sorbant Allergen chip LP-BIO-IMISAC	



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HUMAN BODY FLUIDS (cont'd)	<u>Immunology examination activities for the purpose of clinical diagnosis (cont'd)</u>	In house documented methods incorporating manufacturers' instructions	UHW
Serum (cont'd)	ISAC Allergy Microarray testing. Repertoire as listed below: (cont'd) Hazel Pollen PR-10 protein Japanese cedar PR-10 protein Cypress PR-10 protein Olive PR-10 protein Olive lipid transfer protein (nsLTP) Plane tree lipid transfer protein (nsLTP) Ragweed lipid transfer protein (nsLTP) Mugwort lipid transfer protein (nsLTP) Goosefoot Lipid transfer protein (nsLTP) Annual Mercury Profilin Wall pellitory Lipid transfer protein (nsLTP) Plantain (English) Lipid transfer protein (nsLTP) Saltwort Lipid transfer protein (nsLTP) Dog Lipocalin Dog Serum albumin Dog Arginine esterase Horse Lipocalin Horse Serum albumin Cat Uteroglobin Cat Serum albumin Cat Lipocalin Mouse Lipocalin Alternaria Enolase Aspergillus Enolase	Phadia Microarray Semi-quantitative measurement of specific IgE using Immuno Sorbant Allergen chip LP-BIO-IMISAC	



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HUMAN BODY FLUIDS (cont'd)	<u>Immunology examination activities for the purpose of clinical diagnosis (cont'd)</u>	In house documented methods incorporating manufacturers' instructions	
Serum (cont'd)	ISAC Allergy Microarray testing. Repertoire as listed below: (cont'd)	Phadia Microarray Semi-quantitative measurement of specific IgE using Immuno Sorbant Allergen chip LP-BIO-IMISAC	UHW
	Aspergillus Mn superoxide dismutase Cladosporium Mn superoxide dismutase House dust mite Tropomyosin Storage mite Tropomyosin Cockroach Tropomyosin Honey Bee venom Phospholipase A2 Honey Bee venom Melittin Paper Wasp venom Venom, Antigen 5 Common Wasp venom Venom, Antigen 5 Anisakis Tropomyosin Latex Profilin Sugar Epitope from Bromelain CCD - marker		
Serum	Tryptase	Phadia 250 Fluorescence enzyme immunoassay LP-BIOC-IMTrypt	UHW
Heparin Whole blood	Demonstration of intracytoplasmic NBT reduction in neutrophils	Functional assay Nitrobluetetrazolium (NBT) test SOP - LP-BIO-IMNBT	UHW



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HUMAN BODY FLUIDS (cont'd)	<u>Immunology examination activities for the purpose of clinical diagnosis (cont'd)</u>	In house documented methods incorporating manufacturers' instructions where relevant.	
Serum/Urine	Electrophoresis protein pattern	Sebia Capillarys Capillary zone electrophoresis LP-BIO-IMSebiaCap	UHW
Serum/Urine	Immunofixation: identification of paraproteins	Sebia Hydrasys Agarose gel electrophoresis LP-BIO-IMIFix	UHW
Urine	Bence-Jones protein	Sebia Hydrasys Agarose gel electrophoresis LP-BIO-IMElectro	UHW
Paired serum and CSF	Oligoclonal bands	Sebia Hydrasys Isoelectric focussing assay LP-BIO-IMOligo	UHW
	<u>Trace element examination activities for the purpose of clinical diagnosis</u>	In house documented methods incorporating manufacturers' instructions where relevant. Inductively coupled plasma mass spectrometry (ICP-MS) Varian 7700, 8800	
Plasma/Serum/Urine	Aluminium	LP-BIO-MAlumProcedure LP-BIO-MUrineICPMS	UHW
Blood/urine	Arsenic	LP-BIO-MWholeBloodpanel LP-BIO-MUrineICPMS	UHW
Blood/urine	Cadmium	LP-BIO-MWholeBloodpanel LP-BIO-MUrineICPMS	UHW
Blood/urine	Lead	LP-BIO-MWholeBloodpanel LP-BIO-MUrineICPMS	UHW



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	<u>Trace element examination activities for the purpose of clinical diagnosis (cont'd)</u>	In house documented methods incorporating manufacturers' instructions where relevant. Inductively coupled plasma mass spectrometry (ICP-MS) Varien 7700, 8800	
Blood/urine	Manganese	LP-BIO-MWholeBloodpanel LP-BIO-MUrineICPMS	UHW
Blood/urine	Mercury	LP-BIO-MWholeBloodpanel LP-BIO-MUrineICPMS	UHW
Blood/urine	Thallium	LP-BIO-MWholeBloodpanel LP-BIO-MUrineICPMS	UHW
Blood/plasma/urine	Chromium	LP-BIO-MWholeBloodpanel LP-BIO-MUrineICPMS LP-BIO-MICPMSCrCo	UHW
Blood/plasma/urine	Cobalt	LP-BIO-MWholeBloodpanel LP-BIO-MUrineICPMS LP-BIO-MICPMSCrCo	UHW
Serum/plasma/urine/liver tissue	Copper	LP-BIO-MWholeBloodpanel LP-BIO-MUrineICPMS LP-BIO-MTPNPanel LP-BIO-MLiverTiss	UHW
Urine	Iodine	LP-BIO-MUIodine	UHW
Urine	Nickel	LP-BIO-MUrineICPMS	UHW
Urine/liver tissue	Iron	LP-BIO-MUrineICPMS LP-BIO-MLiverTiss	UHW
Plasma/urine	Selenium	LP-BIO-MUrineICPMS LP-BIO-MTPNPanel	UHW
Plasma/urine	Zinc	LP-BIO-MUrineICPMS LP-BIO-MTPNPanel	UHW
Serum	Strontium	LP-BIO-MICPSrCa	UHW



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HUMAN BODY FLUIDS (cont'd)	Trace element examination activities for the purpose of clinical diagnosis (cont'd)	In house documented methods incorporating manufacturers' instructions where relevant. Inductively coupled plasma mass spectrometry (ICP-MS) Varien 7700, 8800	
Urine	Antimony	LP-BIO-MUrineICPMS	UHW
Blood	Zinc protoporphyrin	Helena Protofluor-z fluorimeter LP-BIO-MZnpp	UHW



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HUMAN BODY FLUIDS (cont'd)	<u>Toxicology examination activities for the purpose of clinical diagnosis</u>	In house documented methods incorporating manufacturers' instructions where relevant. Beckman Coulter AU480 Enzyme Immunoassay method	
Urine	Amphetamine screen	LP-BIO-TXAU480UPRO	UHL
Urine	Benzodiazepine screen	LP-BIO-TXAU480UPRO	UHL
Urine	Cannabis screen	LP-BIO-TXAU480UPRO	UHL
Urine	Cocaine screen	LP-BIO-TXAU480UPRO	UHL
Urine	Methadone metabolite screen	LP-BIO-TXAU480UPRO	UHL
Urine	Opiate screen	LP-BIO-TXAU480UPRO	UHL
Urine	Creatinine	LP-BIO-TXAU480UPRO	UHL
Urine	pH	LP-BIO-TXAU480UPRO	UHL
Urine	Buprenorphine screen	LP-BIO-TXAU480UPRO	UHL
Serum/Plasma	Methotrexate	LP-BIO-TXAU480SPRO	UHL
Plasma (EDTA)	Lamotrigine	LP-BIO-TXAU480SPRO	UHL
Plasma (EDTA)	Levetiracetam	LP-BIO-TXAU480SPRO	UHL
		Jasco V650 Spectroscopy	
Plasma (EDTA)	Cholinesterase phenotype	LP-BIO-TXPSEUD	UHL
Plasma (EDTA)	Pseudocholinesterase	LP-BIO-TXPSEUD	UHL
Plasma (EDTA)	Carboxyhaemoglobin	LP-BIO-TXCOHB	UHL
Plasma (EDTA)	RBC cholinesterase	LP-BIO-TXECHE	UHL



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HUMAN BODY FLUIDS (cont'd)	<u>Toxicology examination activities for the purpose of clinical diagnosis (cont'd)</u>	In house documented methods incorporating manufacturers' instructions where relevant.	
Urine	Amphetamine confirmation	Gas chromatography on the Varian GCMS 4000 LP-BIO-TXPDS	UHL
Urine	Psychoactive drug screen	LP-BIO-TXPDS	
Plasma (EDTA)	Ethambutol	LP-BIO-TXEMB	
Plasma (EDTA)	Mitotane	LP-BIO-TXDDD	
Plasma (EDTA)	Perhexiline	LP-BIO-TXPX	
Serum/Plasma	Mitotane	Shimadzu QP2010 Ultra GCMS LP-BIO-TXDDD	UHL
Serum/Plasma	Perhexiline	LP-BIO-TXPX	
Plasma (EDTA)	Ethambutol	LP-BIO-TXEMB	
Urine	Buprenorphine confirmation	Gas chromatography on the Varian GCMS 2200 LP-BIO-TXOPDIF	UHL
Urine	Cannabis confirmation	LP-BIO-TXTHCCON	UHL
Urine	Cocaine confirmation	LP-BIO-TXOPDIF	UHL
Urine	Opioid differentiation	LP-BIO-TXOPDIF	UHL
Urine	Methadone confirmation	LP-BIO-TXOPDIF	UHL
Plasma (EDTA)	Topiramate	LP-BIO-TXTOPIRAMATE	UHL



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Testing performed by the Organisation at the locations specified

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	<u>Toxicology examination activities for the purpose of clinical diagnosis (cont'd)</u>	In house documented methods incorporating manufacturers' instructions where relevant. Gas chromatography on the Varian GC3800	
Plasma (Fluoride Oxalate)	Ethylene Glycol	LP-BIO-TXETHGLY	UHL
Plasma (EDTA)	Thiopental	LP-BIO-TXTHIOPENTAL	UHL
Plasma/blood/urine	Volatile Alcohols	LP-BIO-TXVALC	UHL
Urine	L-amphetamine fraction	LP-BIO-TXLFRAC	UHL
Plasma/Serum	Thiopental	Shimadzu 2010 Plus GC LP-BIO-TXTHIOPENTAL	UHL
		HPLC using the Perkin Elmer Photo Diode Array (PDA)	
Urine	Benzodiazepine differentiation	LP-BIO-TXBENZO	UHL
Plasma (EDTA)	Amiodarone	LP-BIO-TXAMIOD	
Plasma (EDTA)	Amitriptyline	LP-BIO-TXAMITRP	
Plasma (EDTA)	Clobazam	LP-BIO-TXCLOBAZAM	
Plasma (EDTA)	Hydroxycarbazepine	LP-BIO-TXOXCARB	
Plasma (EDTA)	Isoniazid	LP-BIO-TXINH	
Plasma (EDTA)	Mexiletine	LP-BIO-TXMEX	
Plasma (EDTA)	Oxcarbazepine	LP-BIO-TXOXCARB	
Plasma (EDTA)	Quetiapine	LP-BIO-TXQUET	
Plasma (EDTA)	Rifampicin	LP-BIO-TXRIF	
Plasma (EDTA)	Risperidone	LP-BIO-TXRISPRNE	
Plasma (EDTA)	Sertraline	LP-BIO-TXSERTRALINE	
Plasma (EDTA)	Pyrazinamide	LP-BIO-TXPRZ	



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HUMAN BODY FLUIDS (cont'd)	<u>Toxicology examination activities for the purpose of clinical diagnosis (cont'd)</u>	In house documented methods incorporating manufacturers' instructions where relevant.	
Plasma (EDTA)	Itraconazole	HPLC Perkin Elmer Flexar Varian Fluorescence LP-BIO-TXTRITRACON	UHL
Plasma (EDTA)	Flecainide	HPLC Varian fluorescence Perkin Elmer Flexar LP-BIO-TXFLEC	UHL
Plasma (EDTA)	Clozapine	HPLC Varian electrochemical LP-BIO-TXCLOZ	UHL
Plasma (EDTA)	Olanzapine	HPLC Varian electrochemical LP-BIO-TXOLANZ	UHL
END			