


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 Accredited to ISO 15189:2022	Cardiff and Vale University Health Board	
	Issue No: 014	Issue date: 28 May 2025
	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
Address Medical Biochemistry University Hospital Llandough Penlan Road CF62 2XX	Local contact Laboratory Service Manager: Mr Nigel Roberts	Clinical Biochemistry Toxicology
Address Velindre Hospital Whitchurch Cardiff CF14 2TL	Local contact Laboratory Service Manager: Mr Nigel Roberts	Clinical Biochemistry



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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 manufacturer' instructions where relevant	
Urine	Opiates, Amphetamines and Benzodiazepines	Flexible Scope protocols: QI-BIO-TXFlexibleScope using: Thermo Orbitrap Accurate Mass Spectrometry including Thermo Orbitrap (Accurate Mass) and Thermo Vanquish (UHPLC)	UHL
Urine	Opiates, Amphetamines, and Benzodiazepines	Waters TQs Micro LC-MS/MS and Waters Acquity 1 Class (UHPLC) LP-BIO-TXDAU Flexible scope limited to the application of these methods for the detection of additional biochemical compounds listed in QI-BIO-TXFlexibleScope Appendix 1	UHL
Urine, Saliva, Blood Spot, Serum, Plasma	<u>Specialist Endocrinology Metabolites</u>	Sciex 5500 and Sciex 6500+ LCMS Flexible scope limited to the application of these methods for the detection of Endocrinology Metabolites listed in QI-BIO-EFlexibleScope Appendix 1	UHW



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis</u> (cont'd)	In house documented methods incorporating manufacturers' instructions where relevant Abbott Alinity Measurement by colorimetric, turbidometric, immunoturbidometric, enzymatic, immunoassay, particle enhanced turbidimetric inhibition immunoassay (PETINIA), and indirect ion-selective electrode methods. UHW: 3 x paired Alinity C (chemistry analysers) and 2 x paired Alinity I (immunoassay analysers) linked to A3600 track UHL: 1 x Alinity ci analyser and a single Alinity c Velindre: Single Alinity C analyser	
Serum, plasma	Alcohol	LP-BIO-AETh	UHW, UHL
Serum, plasma	Alkaline phosphatase	LP-BIO-ALVAIkP	UHW, UHL, VEL
Serum, plasma	Alanine Transaminase	LP-BIO-ALVALT	UHW, UHL, VEL
Serum, plasma	Ammonia	LP-BIO-ALV-Ammon	UHW, UHL,
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
Serum, plasma	Bilirubin	LP-BIO-ALVTBil	UHW, UHL, VEL
Serum, plasma	Caeruloplasmin	LP-BIO-ACER	UHW



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)</u>	Abbott Alinity Measurement by colorimetric, turbidometric, immunoturbidometric, enzymatic, immunoassay, and indirect ion-selective electrode methods (cont'd)	
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, VEL
Serum, plasma	C-peptide	LP-BIO-ACPep	UHW
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
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



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)</u>	Abbott Alinity Measurement by colorimetric, turbidometric, immunoturbidometric, enzymatic, immunoassay, and indirect ion-selective electrode methods. (cont'd)	
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	Progesterone	LP-BIO-AProg	UHW
Serum, plasma	Cortisol	LP-BIO-ACort	UHW
Serum, plasma	Troponin I	LP-BIO-ALTrop	UHW, UHL
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



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)</u>	Abbott Alinity Measurement by colorimetric, turbidometric, immunoturbidometric, enzymatic, immunoassay, and indirect ion-selective electrode methods. (cont'd)	
Serum, plasma, urine (UHL, UHW only)	Albumin	LP-BIO-ALVAIbBCP	UHW, UHL, VEL
Serum, plasma, urine	Amylase	LP-BIO-ALAmy	UHW, UHL
Serum, plasma, urine (UHL, UHW only)	Calcium	LP-BIO-ALVCa	UHW, UHL, VEL
Serum, plasma, urine (UHL, UHW only)	Chloride	LP-BIO-ALVElect	UHW, UHL, VEL
Serum, plasma, urine (UHL, UHW only)	Creatinine: Jaffe method	LP-BIO-ALVCrea	UHW, UHL, VEL
Serum, plasma, urine (UHL, UHW only)	Magnesium	LP-BIO-ALVMg	UHW, UHL, VEL
Serum, plasma, urine (UHL, UHW only)	Phosphate	LP-BIO-ALVPO4	UHW, UHL, VEL
Serum, plasma, urine (UHL, UHW only)	Potassium	LP-BIO-ALVElect	UHW, UHL, VEL
Serum, plasma, urine (UHL, UHW only)	Sodium	LP-BIO-ALVElect	UHW, UHL, VEL
Serum, plasma, urine	Urate	LP-BIO-ALUA	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 Alinity Measurement by colorimetric, turbidometric, immunoturbidometric, enzymatic, immunoassay, spectrophotometric, and indirect ion-selective electrode methods. (cont'd)	
Serum, plasma, urine (UHL, UHW only)	Urea	LP-BIO-ALVUrea	UHW, UHL, VEL
Serum, plasma, urine (UHL, UHW only), CSF (UHL, UHW only)	Glucose	LP-BIO-ALVGluc	UHW, UHL, VEL
Serum, plasma, urine (UHL, UHW only), CSF (UHL, UHW only)	Total Protein	LP-BIO-ALVTP LP-BIO-ALUCSFPRO	UHW, UHL, VEL
Urine	Micro Albumin	LP-BIO-AUALB	UHW
Serum	Prostate Specific Antigen	LP-BIO-APSA	UHW
EDTA Plasma	Parathyroid Hormone	LP-BIO-APTH	UHW
Serum, Lithium-Heparin Plasma	Sex hormone binding globulin (SHBG)	LP-BIO-ASHBG	UHW
Serum	Rheumatoid factor	LP-BIO-ARheumFactor	UHW
Serum/Li Heparin plasma	NT Pro BNP	LP-BIO-ALBNP	UHW
Serum/plasma	Pro Calcitonin	LP-BIO-ALPCT	UHW
Serum	Unsaturated iron binding capacity (UIBC)	LP-BIO-AUIBC	UHW
Serum/plasma	Insulin	LP-BIO-AInsulin	UHW
Serum/plasma	Total Homocysteine	LP-BIO-TDHCYAlin	UHW
Plasma/serum	Testosterone	LP-BIO-ATest	UHW
Plasma/serum	Oestradiol	LP-BIO-AOestrad	UHW
Plasma/serum	Angiotensin converting enzyme	LP-BIO-LACE	UHL



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)</u>	Abbott Alinity Measurement by colourimetric, turbidometric, immunoturbidometric, enzymatic, immunoassay, and indirect ion-selective electrode methods. (cont'd)	
Plasma/serum	By calculation: Calculated free testosterone	LI-BIO-EFreeTestCort	UHW
Plasma/Serum	Calculated free testosterone by VTEST	LP-BIO-EDBMaleTest	UHW
Serum/urine	Calcium excretion	LP-BIO-ALVCa	UHW, UHL
Plasma/serum	LDL which includes total cholesterol and triglycerides in its calculation as follows $LDL-C = TC - HDL - Trig/2.2$	LP-BIO-ALChol	UHW, UHL
Plasma/serum	Adjusted calcium includes calcium and Albumin in its calculation- calculation used is Adjusted Ca= $Ca^{+} (44 - Albumin) \times 0.0136$	LP-BIO-ALVCa	UHW, UHL, VEL
Plasma/serum	eGFR (using the 4-variable MDRD equation) $eGFR(ml/min/1.73m^2) = 175 \times [serum\ creatinine(umol/L) \times 0.0113]^{-1.154} \times [age]^{-0.203} \times [0.742\ if\ female]$	LI-BIO-DBEstGFR LP-BIO-ALVCrea	UHW, UHL, VEL
Urine	Albumin-Creatinine Ratio, Protein-Creatinine Ratio - only report calculated ratios of these tests not the actual results of each analyte	LI-BIO-DBTPAlb	UHW, UHL



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis</u> (cont'd)	Abbott Alinity Measurement by colourimetric, turbidometric, immunoturbidometric, enzymatic, immunoassay, and indirect ion-selective electrode methods. (cont'd)	
Plasma/serum/urine	By Calculation: TMP/GFR-	LI-BIO-DBHypoPO4	UHW, UHL
Plasma/serum	non-HDL cholesterol (total-HDL cholesterol)	LI-BIO-ALCHOL	UHW, UHL
Plasma/serum	AKI	ED-BIO-NWISAKI	UHW, UHL, VEL
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
Urine	Microalbumin/creatinine ratio	LP-BIO-AUALB	UHW
Urine	Protein/creatinine ratio	LP-BIO-ALVUCSFPRO	UHW, UHL
Serum/plasma	Gentamicin	LP-BIO-AAInGent using ThermoScientific CEDIA Assay Kit	UHW



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis</u> (cont'd)	Documented in-house methods and manufacturer's instructions for use	
Blood	Blood Gas Profiles: COHb Potassium Glucose	ABL800 Radiometer Amperometric, ion-sensitive electrode and potentiometric measurements LP-BIO-AABL800	UHW UHL
Blood	Ionised calcium		UHW, UHL
Blood, CSF	Lactate pH pCO2 pO2 Sodium Chloride Total Hb O2 Hb Met Hb		UHW, UHL
EDTA Plasma	Haemoglobin A1c	TOSOH G11 Cation exchange HPLC LP-BIO-AHbA1c S	UHW
Serum, plasma, urine	Osmolality	Advanced Instruments Osmometer Model 3320 Freezing point depression LP-BIO-TDOSMOL Osmo Pro Freezing point depression LP-BIO-TDOsmoPro	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 Alinity by Chemiluminescent Microparticle Immunoassay	
Whole blood	Cyclosporin	LP-BIO-TDCicloAlin	UHW
Whole blood	Sirolimus	LP-BIO-TDSirolAlin	UHW
Whole blood	Tacrolimus	LP-BIO-TDTacAlin	UHW
Serum/Plasma	Methotrexate	LP-BIO-AMTX Abbott Alinity	UHW
Serum	Iron	LP-BIO-Alron Colorimetric	UHW
Serum	Lithium	LP-BIO-TDLiAlinity Abbott Alinity by homogeneous particle-enhanced turbidimetric inhibition immunoassay (PETINIA)	UHW
Serum/plasma	Carbamazepine	LP-BIO-AMeasureCarbam	UHW
Serum/plasma	Digoxin	LP-BIO-AAInDig	UHW
Serum/plasma	Phenobarbitol	LP-BIO-AMeasurePhenobarb	UHW
Serum/plasma	Valproate	LP-BIO-AMeasureValproacid	UHW
Serum, plasma	Vancomycin	LP-BIO-AVANC	UHW
Serum, plasma	Tobramycin	LP-BIO-ATOBR	UHW
Serum, plasma	Amikacin	LP-BIO-AAMIK Abbott Alinity by homogeneous enzyme immunoassay	UHW
Serum/plasma	Phenytoin	LP-BIO-AMeasurePheny	UHW
Serum/plasma	Theophylline	LP-BIO-AMeasureTheoph	UHW



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HUMAN BODY FLUIDS (cont'd)	<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 Alinity Immunoassay LP-BIO-ATG	UHW
Serum	Thyroglobulin	LP-BIO-AThyroglobulin	UHW
Serum	Prolactin	LP-BIO-AProlact	
Serum	Extracted prolactin	PEG precipitation step following by analysis on the Abbott Alinity LI-BIO-EMacroprolactin Sciex 5500 TMS LC-MS/MS	
Urine	Metadrenalines: Metadrenaline Normetadrenaline 3-methoxytyramine	LP-BIO-EUrineMetTMS	
Urine	5-Hydroxyindoleacetic Acid	LP-BIO-Eu5HIAA	UHW
Saliva	Cortisol	LP-BIO-ESalCortSciex	
Urine	Free cortisol	LP-BIO-EUFCortisol	
Blood spot/saliva/serum	17 OH Progesterone	LP-BIO-E17OHPbs LP-BIO-E17OHPs&s	
Serum/plasma	DHEAS and/or Androstenedione	LP-BIO-EAndroDHEAS	
Serum/plasma	Testosterone	LP-BIO-ETEST Sciex 6500+ Qtrap TMS LC-MS/MS	UHW UHW
Saliva and serum	17-OH Progesterone	LP-BIO-E170HPs&s	
Serum	Dexamethasone	LP-BIO-EDexamethasone	
Serum, Plasma	HVA VMA	LP-BIO-EHVAVMA	UHW
Urine	Urine Metadrenalines	LP-BIO-EUrineMetTMS	UHW



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HUMAN BODY FLUIDS (cont'd)	<u>Endocrine biochemistry examination activities for the purpose of clinical diagnosis</u> (cont'd)	Documented in-house methods and manufacturer's instructions for use	
Plasma	Adrenocorticotrophin (ACTH)	Siemens Immulite Immunoassay LP-BIO-EACTH	UHW
Serum/plasma	IGF1	LP-BIO-AIGF1	
Serum/plasma	Growth hormone (GH)	LP-BIO-EGH	
Serum/plasma	Thyroid stimulating immunoglobulins	LP-BIO-ATSI	
Serum, Lithium-Heparin plasma, EDTA plasma	C-peptide	C-peptide ELISA kit from Mercodia LP-BIO-EC Pep	UHW
Serum, Lithium-Heparin plasma, EDTA plasma	Insulin	Insulin ELISA kit from Mercodia LP-BIO-EInsulin Beckman DXi Immunoassay	UHW
Serum	Anti-mullerian hormone (AMH)	LP-BIO-EAMH	UHW



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HUMAN BODY FLUIDS (cont'd)	<u>Endocrine biochemistry examination activities for the purpose of clinical diagnosis</u> (cont'd)	Documented in-house methods and manufacturer's instructions for use	
Blood spot	TSH (not neonatal)	Perkin Elmer Autodelphia Immunoassay LP-BIO-EhTSHDowns Siemens Centaur: two-site sandwich immunoassay using direct chemiluminometric technology	UHW
Serum	Procollagen peptide type 3 (P3NP)	LP-BIO-EP3NP	UHW
Serum	Enhanced Liver Fibrosis – Hyaluonic Acid and tissue Inhibitor of Matrix Metalloproteinase 1 used in conjuncton with P3NP to give an ELF score	LP-BIO-AHA LP-BIO-ATIMP-1	UHW
Serum, Plasma	Testosterone	ABSciex 6500 Tandem Mass Spectrometry LP-BIO-ETest	UHW



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HUMAN BODY FLUIDS (cont'd)	<u>Antenatal screening activities</u>	Documented in-house methods and manufacturer's instructions for use	UHW
Serum	<p>2nd trimester Down's screen (QUAD test):</p> <ul style="list-style-type: none"> • Human alpha-fetoprotein (AFP) • Intact human chorionic gonadotrophin (hCG) • Unconjugated estriol • Inhibin <p>1st trimester Down's screen (Combined test)</p> <ul style="list-style-type: none"> • PAPP-A • Free β subunit of human chorionic gonadotrophin (Free hCGβ) 	<p>Perkin Elmer Autodelphia Immunoassay</p> <p>LP-BIO-EAFP LP-BIO-EHCG LP-BIO-EUE3 LP-BIO-EInhibinA</p> <p>LP-BIO-EPAPP-A LP-BIO-EHCGB</p>	
Blood spot	<u>Newborn screening activities</u>	Documented in-house methods and manufacturer's instructions for use	
Blood spot	Screening for Cystic fibrosis using immunoreactive trypsinogen (IRT) test	<p>Perkin Elmer Autodelphia Immunoassay</p> <p>LP-BIO-ENNeoIRT</p>	
Blood spot	Screening for Hypothyroidism using TSH test	<p>Perkin Elmer Autodelphia Immunoassay</p> <p>LP-BIO-ENEOTSH</p>	



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HUMAN BODY FLUIDS (cont'd)	<u>Newborn screening activities for the purpose of clinical diagnosis (cont'd)</u>	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, Waters Xevo TQ S _μ and Waters Xevo TQD Tandem Mass spectrometry LP-BIO-ENSCDTMS	UHW
Blood spot	Screening for Phenylketonuria by phenylalanine level	LP-BIO-ENDriedBSIEMs	UHW
Blood spot	Phenylketonuria monitoring	LP-BIO-ENPKUMSUD	UHW
Blood spot	Maple syrup urine disease screening for defects in the branched chain 2-keto acid dehydrogenase (BCKAD) complex	LP-BIO-ENDriedBSIEMs	UHW
Blood spot	Maple syrup urine disease – branch chain monitoring	LP-BIO-ENPKUMSUD	UHW
Blood spot	Medium Chain Acyl CoA Dehydrogenase Deficiency (MCADD) screen	LP-BIO-ENDriedBSIEMs	UHW
Blood spot	Isovaleric acidemia 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 (cont'd)</u>	Documented in-house methods and manufacturer's instructions for use	
Blood spot	Glutaric aciduria Type I screen for deficiency of the enzyme glutaryl-CoA dehydrogenase (GCDH)	Waters Xevo TQ MS, Waters TQSm and Waters Xevo TQD Tandem Mass spectrometry LP-BIO-ENDriedBSIEMs	UHW
Blood Spot	Total homocysteine and methionine	Tandem Mass Spectrometry using the Waters Acquity/Xevo TQSu LC-MS/MS SOP LP-BIO-ENDriedBSHCY Berthold Tristar Fluorimeter	UHW
Dried blood spots, whole blood	Galactose-1-Phosphate Uridyl Transferase	LP-BIO-ENGal1PHT	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>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 Acquity UPLC-Xevo TQ-S- μ LC-MSMS Tandem Mass Spectrometry LP-BIOSAcylcarn	UHW
Serum/plasma	Biotinidase	Pentra analyser Horiba Pentra 400c 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	
Urine/fluid/CSF	Organic acids	GCMS Agilent 6890 GC with 5975 MSD LP-BIO-SOrgAcid	UHW



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HUMAN BODY FLUIDS (cont'd)	<u>Metabolic biochemistry examination activities for the purpose of clinical diagnosis</u> (cont'd)	Documented in-house methods and manufacturer's instructions for use	
Sweat	Chloride	Analysis of Sweat Chloride by Elitech Chlorocheck MeterLP-BIO-SSWeatCL	UHW
Faeces	Faecal calprotectin	Dynex DS2 ELISA enzyme immunoassay kit LP-BIO-SCalpro	UHW
Faeces	Faecal elastase	Dynex DS2 Schebo ELISA kit LP-BIO-SElastase	UHW
Serum/plasma	Vitamins A and E	Agilent HPLC 1200 HPLC LP-BIO-SVitA&E	UHW
CSF	Xanthochromia	North Star Uvikon Spectrophotometry LP-BIO-SXanthNS	UHW
Plasma	Amino acids	Waters Acquity QDa LCMS LP-BIO-ENAAminoQDA	UHW



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HUMAN BODY FLUIDS (cont'd)	<u>Metabolic biochemistry examination activities for the purpose of clinical diagnosis</u> (cont'd)	Documented in-house methods and manufacturer's instructions for use	
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 Waters TQS _μ LCMS	UHW
Plasma, Urine	Methyl malonic acid	LP-BIO-SMMA	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 North star Spectrophotometer Ion exchange/ spectroscopy	UHW
Urine	Porphobilinogen	LP-BIO-PPBG	UHW
Urine	Aminolevulinic acid	LP-BIO-PALA Agilent HPLC 1260	UHW
Urine/faeces	Porphyria precursor patterns: Uroporphyrin Heptacarboxylic porphyrin	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/Sci70)	LP-BIO-IMENA	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-IMGBMOrg Dynex DSX ELISA	UHW
Serum	Anti-PLA2R Antibodies	LP-BIO-IMPLA2R	UHW
Serum	GAD Antibodies	LP-BIO-EDiabAutoAbs	UHW
Serum	IA2 Autoantibodies	LP-BIO-EDiabAutoAbs	UHW
Serum	ZnT8 Autoantibodies	LP-BIO-EDiabAutoAbs	UHW



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HUMAN BODY FLUIDS (cont'd)	<u>Immunology examination activities for the purpose of clinical diagnosis</u> (cont'd)	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
Serum	C1 esterase inhibitor (functionall)	LP-BIO-IMC1FEst	UHW
Serum	Anti-C1q antibodies	Manual Quidel ELISA kit LP-BIO-IMAC1q	UHW
Serum	Terminal Complement Component (TCC) (C5-9 complex)	LP-BIO-IMTCC	UHW



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HUMAN BODY FLUIDS (cont'd)	<u>Immunology examination activities for the purpose of clinical diagnosis</u> (cont'd)	In house documented methods incorporating manufacturers' instructions where relevant	
Serum	Mannose Binding Lectin (MBL)	Manual Bioporto ELISA kit LP-BIO-IMMBL	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-IMGAB	UHW
Serum	Antibodies to pneumococcus	Binding site ELISA kit on Best 2000 analyser LP-BIO-IMAGAB	UHW
Serum	Crithidia antibodies	Manual method using Bio-diagnostics slides Indirect immunofluorescence LP-BIO-IMTissAb	UHW
Serum	Anti-neutrophil cytoplasmic antibody (ANCA)	Manual method using Inova kit Indirect immunofluorescence LP-BIO-IMANCA	UHW



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HUMAN BODY FLUIDS (cont'd)	<u>Immunology examination activities for the purpose of clinical diagnosis</u> (cont'd)	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 Biodiagnostic Slides 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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HUMAN BODY FLUIDS (cont'd)	<u>Immunology examination activities for the purpose of clinical diagnosis</u> (cont'd)	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 Inova slides Indirect immunofluorescence LP-BIO-IMTissAb	UHW
Serum	Pemphigoid antibodies	Manual method using Inova 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
Serum	Anti-Tissue Transglutaminase IgA Antibodies	Stratec Gemini Combo Orgentec ELISA LP-BIO-IMTTGIGAGemini	UHW



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



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HUMAN BODY FLUIDS (cont'd)	<u>Immunology examination activities for the purpose of clinical diagnosis</u> (cont'd)	In house documented methods incorporating manufacturers' instructions where relevant.	
	Immunophenotyping of CD markers / antigens to diagnose and monitor primary immunodeficiencies and monitor HIV patients:	Becton Dickinson Lyric flow cytometer Flow cytometry	UHW
EDTA whole blood	Lymphocyte phenotypes	LP-BIO-IMBDLymphs	UHW
EDTA whole blood	B cell memory phenotyping	LP-BIO-IMBDPHENO	UHW
EDTA whole blood	Naïve T cells	LP-BIO-IMBDNAIVETCell	UHW
EDTA whole blood	TCR alpha beta double negative T cells	LP-BIO-IMBDTCRAB	UHW
Heparin whole blood	Neutrophil function (DHR)	Cellular respiratory burst by oxidation of DHR to rhodamine-123 LP-BIO-IMBDDHR	UHW
EDTA whole blood	T cell receptor (TCR) beta spectrotyping	LP-BIO-IMBDTCRAB	UHW
EDTA whole blood	T cell proliferation	LP-BIO-IMBDDRAQ5	UHW
EDTA whole blood	Adhesion molecules	LP-BIO-IMBDLAD	UHW



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HUMAN BODY FLUIDS (cont'd)	<u>Immunology examination activities for the purpose of clinical diagnosis</u> (cont'd)	In house documented methods incorporating manufacturers' instructions	
Serum	Total IgE	Phadia 250 Fluorescence enzyme immunoassay LP-BIO-IMTOTIGE	UHW
Serum	Anti-cyclic citrullinated peptide antibody	LP-BIO-IMCCP	UHW
Serum	Specific IgE as listed in the 2014 catalogue and below 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> <i>Aspergillus terreus</i> Aubergine, eggplant <i>Aureobasidium pullulans</i> Australian pine Avocado Bahia Grass	Phadia 250 Fluorescence enzyme immunoassay LP-BIO-IMSPECIGE	UHW



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HUMAN BODY FLUIDS (cont'd)	<u>Immunology examination activities for the purpose of clinical diagnosis</u> (cont'd)	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	
	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 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	LP-BIO-IMSPECIGE	



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HUMAN BODY FLUIDS (cont'd)	<u>Immunology examination activities for the purpose of clinical diagnosis</u> (cont'd)	In house documented methods incorporating manufacturers' instructions	UHW
Serum (cont'd)	Specific IgE as listed in the 2014 catalogue and below (cont'd) Caraway Cardamon Careless weed Carob (E410) Carrot Cashew nut Cat dander Cat fish 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 Cochineal extract (Carmines red) (E120) Cocklebur Cockroach, American Cockroach, German	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</u> (cont'd)	In house documented methods incorporating manufacturers' instructions	UHW
Serum (cont'd)	Specific IgE as listed in the 2014 catalogue and below (cont'd) 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 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	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)	<p>Specific IgE as listed in the 2014 catalogue and below (cont'd)</p> <p>Douglas fir Duck feathers Echinococcus Eel Egg Egg white Egg yolk Elder Elk/moose meat Elm <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 (F. moniliforme)</i> Gal-alpha-1,3-Gal Thyroglobulin, bovine Garlic Gelatin bovine</p>	<p>Phadia 250 Fluorescence enzyme immunoassay</p> <p>LP-BIO-IMSPECIGE</p>	



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HUMAN BODY FLUIDS (cont'd)	<u>Immunology examination activities for the purpose of clinical diagnosis</u> (cont'd)	In house documented methods incorporating manufacturers' instructions	UHW
Serum (cont'd)	Specific IgE as listed in the 2014 catalogue and below (cont'd) 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 Gum arabic (E414) Hackberry Haddock Hake Halibut Hamster epithelium Hazel Hazel nut Herring Hexahydroptalic anhydrid Hollister-Stier Labs. Honey Honeybee Hop (fruit cone) Horn beam	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</u> (cont'd)	In house documented methods incorporating manufacturers' instructions	UHW
Serum (cont'd)	Specific IgE as listed in the 2014 catalogue and below (cont'd) Horse chestnut Horse dander Horse fly Horse meat Horse, serum proteins Insulin bovine Insulin human Insulin porcine Isocyanate HDI (Hexamethylene diisocyanate) 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	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</u> (cont'd)	In house documented methods incorporating manufacturers' instructions	UHW
Serum (cont'd)	Specific IgE as listed in the 2014 catalogue and below (cont'd) 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 Megrim Melaleuca, Cajeput-tree Melon Mesquite Methyltetrahydroptalic anhydrid Milk Milk, boiled Mink epithelium nAmb a 1 Ragweed	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</u> (cont'd)	In house documented methods incorporating manufacturers' instructions	UHW
Serum (cont'd)	<p>Specific IgE as listed in the 2014 catalogue and below (cont'd)</p> <p>nAna c 2 Bromelain, Pineapple nArt v 1 Mugwort nArt v 3 LTP, Mugwort nASP o 21 alpha-amylase nBos d 4 alpha-lactalbumin, 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 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</p>	<p>Phadia 250 Fluorescence enzyme immunoassay</p> <p>LP-BIO-IMSPECIGE</p>	



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HUMAN BODY FLUIDS (cont'd)	<u>Immunology examination activities for the purpose of clinical diagnosis</u> (cont'd)	In house documented methods incorporating manufacturers' instructions	UHW
Serum (cont'd)	Specific IgE as listed in the 2014 catalogue and below (cont'd) Olive Olive (black, fresh) Onion Orange Orange roughy Oregano Oyster 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> Phthalic anhydride Pigeon droppings Pigeon feathers Pine Pine nut, pignoles	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</u> (cont'd)	In house documented methods incorporating manufacturers' instructions	UHW
Serum (cont'd)	Specific IgE as listed in the 2014 catalogue and below (cont'd) 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> <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>	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</u> (cont'd)	In house documented methods incorporating manufacturers' instructions	UHW
Serum (cont'd)	<p>Specific IgE as listed in the 2014 catalogue and below (cont'd)</p> <p><i>Raspberry</i> Rat epithelium Rat epithelium, serum proteins and urine proteins Rat serum proteins Rat urine proteins rBer e 1 Brazil nut rBet v 1 PR-10, Birch rBet v 2 Profilin, Birch 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 rHev b 11 Latex rHev b 3 Latex rHev b 5 Latex</p>	<p>Phadia 250 Fluorescence enzyme immunoassay</p> <p>LP-BIO-IMSPECIGE</p>	



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HUMAN BODY FLUIDS (cont'd)	<u>Immunology examination activities for the purpose of clinical diagnosis</u> (cont'd)	In house documented methods incorporating manufacturers' instructions	UHW
Serum (cont'd)	<p>Specific IgE as listed in the 2014 catalogue and below (cont'd)</p> <p>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 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</p>	<p>Phadia 250 Fluorescence enzyme immunoassay</p> <p>LP-BIO-IMSPECIGE</p>	



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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</u> (cont'd)	In house documented methods incorporating manufacturers' instructions	UHW
Serum (cont'd)	Specific IgE as listed in the 2014 catalogue and below (cont'd) 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 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	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</u> (cont'd)	In house documented methods incorporating manufacturers' instructions	UHW
Serum (cont'd)	Specific IgE as listed in the 2014 catalogue and below (cont'd) <i>Stemphylium herbarum</i> (S. <i>botryosum</i>) 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) <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	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</u> (cont'd)	In house documented methods incorporating manufacturers' instructions	UHW
Serum (cont'd)	Specific IgE as listed in the 2014 catalogue and below (cont'd) 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 White hickory White pine White-faced hornet Whitefish (Inconnu) Wild rye grass Willow Wormwood Yeast Yellow dock Yellow hornet	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</u> (cont'd)	In house documented methods incorporating manufacturers' instructions	
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 Cow's milk Transferrin Cpd Parvalbumin Shrimp Tropomyosin 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	Phadia Microarray Semi-quantitative measurement of specific IgE using Immuno Sorbant Allergen chip LP-BIO-IMISAC	UHW



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HUMAN BODY FLUIDS (cont'd)	<u>Immunology examination activities for the purpose of clinical diagnosis</u> (cont'd)	In house documented methods incorporating manufacturers' instructions	UHW
Serum (cont'd)	<p>ISAC Allergy Microarray testing. Repertoire as listed below: (cont'd)</p> <p>Peanut Storage protein, Conglutin Peanut Storage protein, 11S globulin Peanut Storage protein, Conglutin Peanut PR-10 protein 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</p>	<p>Phadia Microarray Semi-quantitative measurement of specific IgE using Immuno Sorbant Allergen chip</p> <p>LP-BIO-IMISAC</p>	



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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)	<p>ISAC Allergy Microarray testing. Repertoire as listed below: (cont'd)</p> <p>BirchPR-10 protein Birch Profilin Birch Polcalcin 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</p>	<p>Phadia Microarray Semi-quantitative measurement of specific IgE using Immuno Sorbant Allergen chip</p> <p>LP-BIO-IMISAC</p>	



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HUMAN BODY FLUIDS (cont'd)	<u>Immunology examination activities for the purpose of clinical diagnosis</u> (cont'd)	In house documented methods incorporating manufacturers' instructions	UHW
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	
	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	LP-BIO-IMISAC	
Serum	Tryptase	Phadia 250 Fluorescence enzyme immunoassay LP-BIOC-IMTrypt	UHW



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HUMAN BODY FLUIDS (cont'd)	<u>Immunology examination activities for the purpose of clinical diagnosis</u> (cont'd)	In house documented methods incorporating manufacturers' instructions where relevant.	
Serum	Complement C3/C4	Binding Site Optilite Turbidimetry BIO-IMC3C4	UHW
Serum	Immunoglobulins IgG/A/M	BIO-IMIGGAM	
Serum	Beta 2 microglobulin	LP-BIO-IMB2MICRO	
Serum	Free kappa and lambda light chains	LP-BIO-IMFreelite	
Serum	Alpha 1 antitrypsin	LP-BIO-IMAAT	
Serum	C1 Esterase Inhibitor	LP-BIO-IMC1IEI	
Serum	Immunoglobulin subclasses (IgG subclasses)	LP-BIO0IMIgSub	
Serum	Serum Electrophoresis and Immunotyping	Sebia Capillarys Capillary zone electrophoresis LP-BIO-IMSebiaCap	UHW
Serum/Urine	Immunofixation: identification of paraproteins	Sebia Hydrasys II Agarose gel electrophoresis LP-BIO-IMIFix	UHW
Urine	Bence-Jones protein	Sebia Hydrasys II Agarose gel electrophoresis LP-BIO-IMUrineElectro	UHW
Paired serum and CSF	Oligoclonal bands	Sebia Hydrasys II Isoelectric focussing assay LP-BIO-IMOligo	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</u>	In house documented methods incorporating manufacturers' instructions where relevant. Inductively coupled plasma mass spectrometry (ICP-MS) Nexion 5000	
Plasma/Serum	Aluminium	LP-BIO-MAlumNexion LP-BIO-MUrineICPMSNexion	UHW
Blood/urine	Arsenic	LP-BIO-MWholeBloodPanelNexion LP-BIO-MUrineICPMSNexion	UHW
Blood/urine	Cadmium	LP-BIO-MWholeBloodPanelNexion LP-BIO-MUrineICPMSNexion	UHW
Blood/urine	Lead	LP-BIO-MWholeBloodPanelNexion LP-BIO-MUrineICPMSNexion	UHW
Blood/urine	Manganese	LP-BIO-MWholeBloodPanelNexion LP-BIO-MUrineICPMSNexion	UHW
Blood/urine	Mercury	LP-BIO-MUrineHg&TINexion LP-BIO-MWholeBloodPanelNexion LP-BIO-MUrineICPMSNexion	UHW
Blood/urine	Thallium	LP-BIO-MWholeBloodPanelNexion LP-BIO-MUrineICPMSNexion	UHW
Blood/plasma/urine	Chromium	LP-BIO-MserumCrCoNexion LP-BIO-MWholeBloodPanelNexion LP-BIO-MUrineICPMSNexion LP-BIO-MSerumCrCoNexion	UHW
Blood/plasma/urine	Cobalt	LP-BIO-MserumCrCoNexion LP-BIO-MWholeBloodPanelNexion LP-BIO-MUrineICPMSNexion LP-BIO-MSerumCrCoNexion	UHW
Serum/plasma/urine/liver tissue	Copper	LP-BIO-MwholeBloodPanelNexion LP-BIO-MUrineICPMSNexion LP-BIO-MTPNPanelNexion LP-BIO-MLiverTissNexion	UHW
Urine	Iodine	LP-BIO-MUrineIodineNexion	UHW
Urine	Nickel	LP-BIO-MUrineICPMSNexion	UHW



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HUMAN BODY FLUIDS (cont'd)	<u>Trace element examination activities for the purpose of clinical diagnosis</u> (cont'd)	In house documented methods incorporating manufacturers' instructions where relevant. Inductively coupled plasma mass spectrometry (ICP-MS) Nexion 5000	
Urine/liver tissue	Iron	LP-BIO-MUrinelCPMS LP-BIO-MLiverTissNexion	UHW
Plasma/urine	Selenium	LP-BIO-MUrinelCPMS LP-BIO-MTPNPanelNexion	UHW
Blood/Plasma/urine	Zinc	LP-BIO-MUrinelCPMS LP-BIO-MTPNPanelNexion	UHW
Plasma/Serum/Urine	Aluminium	LP-BIO-MAlumProcedure LP-BIO-MUrinelCPMS	UHW
Blood/urine	Arsenic	LP-BIO-MWholeBloodpanel LP-BIO-MUrinelCPMS	UHW
Blood/urine	Cadmium	LP-BIO-MWholeBloodpanel LP-BIO-MUrinelCPMS	UHW
Blood/urine	Lead	LP-BIO-MWholeBloodpanel LP-BIO-MUrinelCPMS	UHW
Blood/urine	Manganese	LP-BIO-MWholeBloodpanel LP-BIO-MUrinelCPMS	UHW
Blood/urine	Mercury	LP-BIO-MWholeBloodpanel LP-BIO-MUrinelCPMS	UHW
Blood/urine	Thallium	LP-BIO-MWholeBloodpanel LP-BIO-MUrinelCPMS	UHW
Blood/plasma/urine	Chromium	LP-BIO-MWholeBloodpanel LP-BIO-MUrinelCPMS LP-BIO-MICPMSCrCo	UHW
Blood/plasma/urine	Cobalt	LP-BIO-MWholeBloodpanel LP-BIO-MUrinelCPMS LP-BIO-MICPMSCrCo	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.	
		Jasco V750 Spectroscopy	
Plasma (EDTA)	Cholinesterase phenotype	LP-BIO-TXPSEUD	UHL
Plasma (EDTA)	Pseudocholinesterase	LP-BIO-TXPSEUD	UHL
Plasma (EDTA)	Carboxyhaemoglobin	LP-BIO-TXCOHB	UHL
		Shimadzu QP2010 Ultra GCMS	
Serum/Plasma	Mitotane	LP-BIO-TXDDD	UHL
Serum/Plasma	Perhexiline	LP-BIO-TXPX	UHL
Plasma (EDTA)	Ethambutol	LP-BIO-TXEMB	UHL
Plasma/Serum	Thiopental	Shimadzu 2010 Plus GC LP-BIO-TXTHIOPENTAL	UHL



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HUMAN BODY FLUIDS (cont'd)	<u>Toxicology examination activities for the purpose of clinical diagnosis</u> (cont'd)	In house documented methods incorporating manufacturers' instructions where relevant. HPLC using the Perkin Elmer Photo Diode Array (PDA)	
Plasma (EDTA) Plasma (EDTA) Plasma (EDTA)	Amiodarone Amitriptyline Clobazam	LP-BIO-TXAMIOD LP-BIO-TXAMITRP LP-BIO-TXCLOBAZAM	
Plasma (EDTA) Plasma (EDTA)	Isoniazid Mexiletine	LP-BIO-TXINH LP-BIO-TXMEX	
Plasma (EDTA) Plasma (EDTA)	Sertraline Pyrazinamide	LP-BIO-TXSERTRALINE LP-BIO-TXPRZ	
Plasma (EDTA)	Itraconazole	Perkin Elmer Flexar Varian Fluorescence HPLC LP-BIO-TXTRITRACON	UHL
Plasma (EDTA)	Flecainide	Varian fluorescence Perkin Elmer Flexar HPLC LP-BIO-TXFLEC	UHL
Serum/Plasma	Antiepileptic drugs: (Levetiracetam, lamotrigine, hydroxycarbazepine, topiramate, clozapine, desmethyl clozapine, olanzapine, quetiapine, norquetiapine, risperidone, 9-hydroxy risperidone)	Waters Triple Quad LC-MS/MS LP-BIO-TXNeuroleptics LP-BIO-TXAED	UHL
Serum, Plasma	Antiarrhythmic Drug Panel: Flecainide Amiodarone Mexiletine	LP-BIO-TXAntiarrhythmics	UHL
END			