


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 8627 Accredited to ISO 15189:2022	Portsmouth Hospitals University NHS Trust Issue No: 015 Issue date: 04 June 2025	
	Blood Sciences (Biochemistry & Haematology) Pathology Building Queen Alexandra Hospital Portsmouth PO6 3LY United Kingdom	Contact: Mrs Victoria Hunt Tel: +44 (0) 23 9228 6784 E-Mail: victoria.hunt@porthosp.nhs.uk Website: www.porthosp.nhs.uk/departments/Pathology/pathology.htm
Testing performed at the above address only		

Site activities performed away from the locations listed above:

Location details	Activity
Maternity Theatres Level B Queen Alexandra Hospital Portsmouth PO6 3LY	Blood storage & issue Fridge managed by Transfusion Laboratory
Haematology Day Unit Level B Queen Alexandra Hospital Portsmouth PO6 3LY	Blood storage & issue Fridge managed by Transfusion Laboratory
Independent Sector Treatment Centre Level C Theatres St Mary's General Hospital Milton Road Portsmouth Hampshire PO3 6DR	Blood storage & issue Fridge managed by Transfusion Laboratory
Fareham Community Hospital Brook Lane Fareham Hampshire SO31 7DQ	Blood storage & issue Fridge managed by Transfusion Laboratory



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DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUIDS	<u>Blood Transfusion examinations to assist in clinical investigations</u>	Procedures documented in manufacturer's equipment manuals in conjunction with documented in-house procedures by the following methods:
EDTA Whole Blood	ABO / D Blood Group by detection and identification of antigens: A Rh D Positive AB Rh D Positive B Rh D Positive O Rh D Positive A Rh Negative AB Rh D Negative B RhD Negative O Rh D Negative	Manual using Diamed (BioRad) Column Agglutination Technology LPR-BSL-T-ManualTests
EDTA Plasma	Antibody Screen by detection of antibodies to: Rh-hr - C, c, D, E, e, f, Cw Kell - K, k, Kpa, Kpb, Jsb Duffy - Fya, Fyb MNSs - M, N, S, s Kidd - Jka, JKb Lutheran - Lua, Lub Lewis - Lea, Leb Auto-antibodies	Manual using Diamed (BioRad) Column Agglutination Technology LPR-BSL-T-ManualTests
EDTA Whole blood	Antibody Investigation by detection, identification of: Rh-hr - C, c, D, E, e, f, Cw Kell - K, k, Kpa, Kpb, Jsb Duffy - Fya, Fyb MNSs - M, N, S, s Kidd - Jka, Jkb Lutheran - Lua, Lub Lewis - Lea, Leb Auto-antibodies	Manual using Diamed (BioRad) Column Agglutination Technology LPR-BSL-T-ManualTests
EDTA Whole blood	Manual DAT Full DAT	Manual using Diamed (BioRad) Column Agglutination Technology LPR-BSL-T-ManualTests



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HUMAN BODY FLUIDS (cont'd)	<u>Blood Transfusion examinations to assist in clinical investigations</u> (cont'd)	Procedures documented in manufacturer's equipment manuals in conjunction with documented in-house procedures by the following methods:
EDTA Whole Blood	Foetal Maternal Haemorrhage Screen	Manual using Acid Elution Technique (Kleihauer Guest Medical kit) LPR-BSL-T-FMH
EDTA Blood Plasma	Compatibility testing of patients' plasma with donor cells	Manual full serological crossmatch Diamed (BioRad) Column Gel IAT technology. LPR-BSL-T-Crossmatch.



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HUMAN BODY FLUIDS (cont'd)	<u>Haematological examinations to assist in clinical investigations</u>	Procedures documented in manufacturer's equipment manuals in conjunction with documented in-house procedures by the following methods:
EDTA Whole Blood	Full Blood Count (FBC) analysis of the following parameters: WBC RBC HGB HCT MCV MCH MCHC RDW PLT NEUT LYMPH MONO EOS BASO Reticulocyte count	Beckman Coulter DxH900, impedance, spectrophotometry, laser flow cytometry LPR-BSL-AH-DxH900
EDTA Whole Blood	IMT (Infectious Mononucleosis Test) Heterophile Antibody	Manual using Clearview IM II Antigen Test Kit. LP-HAE-H-CirVIM
EDTA Whole Blood	Malarial antigens screen for: <i>Plasmodium falciparum</i> and pan-detection for: <i>Plasmodium malariae</i> , <i>Plasmodium ovale</i> & <i>Plasmodium vivax</i>	Manual using CareUs kit immuno-chromatographic test kit for Plasmodium Falciparum Antigen LP-HAE-H-MPID-PFAG
EDTA Whole Blood	Erythrocyte Sedimentation Rate (ESR)	Starrsed modified Westergren method measured after 30 minutes then adjusted to 60 correcting for temperature LPR-BSL-AH-StarrsedESR



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HUMAN BODY FLUIDS (cont'd)	<u>Morphology examinations for the purpose of clinical diagnosis</u>	Procedures documented in manufacturer's equipment manuals in conjunction with documented in-house procedures by the following methods:
EDTA Whole Blood	Morphological examination and enumeration of Peripheral Blood and Bone Marrow film analysis to identify haematological conditions	Manual microscopy of May Grunwald Giemsa stained, Perls Iron stained or unstained slides Beckman Coulter DXHSMS for slide preparation LPR-BSL-AH-SMS Manual microscopy for examination LP-HAE-H-FilMER LP-BSL-BS-BoneP
EDTA Whole Blood	Detection & speciation (thin films) of malaria parasites: <i>Plasmodium falciparum</i> , <i>Plasmodium malariae</i> , <i>Plasmodium ovale</i> , <i>Plasmodium vivax</i> , <i>Plasmodium Knowlesi</i>	Preparation of thick and thin films, manual Giemsa-Gurr staining, field stains A&B and light microscopy LP-HAE-H-MPID
EDTA Whole blood	Haemoglobin Variants	TOSOH G11 BSL-BS-S-TOSG11THAL, HPLC



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HUMAN BODY FLUIDS (cont'd)	<u>Immunophenotyping examination activities for the purpose of clinical diagnosis</u>	Procedures documented in manufacturer's equipment manuals in conjunction with documented in-house procedures by the following methods:
EDTA Whole Blood	Immunophenotypic Identification of PNH clones WBC: FLAER, CD24, CD15, CD14, CD64 CD45 RBC: CD235a, CD59	Beckman Coulter Navios LP-HAE-I-PNHS
EDTA Whole Blood Bone Marrow Aspirates Body Fluids	Leukaemia/Lymphoma Immunophenotyping Haematolymphoid Lineage Investigations: CD45, CD3, CD4, CD5, CD8, CD10, CD56, CD19, CD20, CD34, kappa, lambda	Beckman Coulter Navios Flow Cytometer LP-HAE-I-L&LSCREEN
EDTA Whole Blood Bone Marrow Aspirates Body Fluids	Flow Cytometric Leukaemia/Lymphoma Immunophenotyping Chronic and Acute Panel antigens Myeloid Lineage Investigations: CD45, CD2, CD4, CD7, CD11b, CD11c, CD13, CD14, CD15, CD16, CD33, CD36, CD56, CD41, CD61, CD71, CD64, CD34, CD117, CD235a, HLA-DR, CD19, CD203c, CD123	Beckman Coulter & Navios Flow Cytometers LP-HAE-I-FLOWPANELS



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EDTA Whole Blood Bone Marrow Aspirates Body Fluids	Flow Cytometric Leukaemia/Lymphoma Immunophenotyping Chronic and Acute Panel antigens B cell Lineage Investigations: CD45, CD5, CD10, CD11c, CD19, CD20, CD34 CD22, CD23, CD24, CD25, CD38, CD43, CD79b, CD103, CD138, CD200, HLA-DR, FMC7 kappa, lambda, slgG, slgA SlgM, slgD.CD123	Beckman Coulter & Navios Flow Cytometers LP-HAE-I-FLOWPANELS
EDTA Whole Blood Bone Marrow Aspirates Body Fluids	Flow Cytometric Leukaemia/Lymphoma Immunophenotyping Chronic and Acute Panel antigens T & NK cell Lineage Investigations CD45, CD1a, CD2, CD3, CD4, CD5, CD7, CD8, CD10, CD16, CD56, CD25, HLA-DR, CD57 TCRαβ, TCRγδ, CD34, CD26, CD27	Beckman Coulter & Navios Flow Cytometers LP-HAE-I-FLOWPANELS
EDTA Whole Blood Bone Marrow Aspirates Body Fluids	Flow Cytometric Immunophenotyping for cytoplasmic & nuclear antigens CytCD3, cytCD79a, cytMPO, cytTdT	Beckman Coulter & Navios Flow Cytometers LP-HAE-I-INTRAS



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis</u>	In house documented procedures incorporating manufacturers' instructions where relevant using the following instrumentation and methodology:
	Fetal Anomaly Screening (FASP)	Documented in-house methods to meet the requirements of the Fetal anomaly screening programme as defined in the NHS Fetal anomaly screening: Laboratory QA evidence requirements.
Serum	BHCG	Delfia Xpress Immunoassay analyser
Serum	PAPP-A	LPR-BSL-S- XPRESS Immunoassay
	Sickle Cell and Thalassemia Screening (SCT)	Documented in-house methods to meet the requirements of the Sickle Cell and Thalassemia screening programme as defined in the NHS Sickle Cell and thalassemia screening: Laboratory QA evidence requirements.
EDTA Whole Blood	Haemoglobin variants	TOSOH G11 BSL-BS-S-TOSG11THAL, HPLC
EDTA Whole Blood	Sickledex screening	ClinTech Sickle Test for Haemoglobin S Solubility Screening LPR-BSL-S-Sicchk LI-BSL-S-Sicchk
	Newborn Blood Spot Screening (NBS)	Documented in-house methods to meet the requirements of the Newborn blood spot screening programme as defined in the 'NHS Newborn bloodspot screening: Laboratory QA evidence requirements.
Bloodspots	TSH IRT	Autodelfia Immunoassay analyser, LPR-BSL-S-TSH Immunoassay (DELFLIA)



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis</u> (cont'd)	In house documented procedures incorporating manufacturers' instructions where relevant using the following instrumentation and methodology:
Bloodspots	Haemoglobin variants (new-born screening)	BioRad HPLC VNBS, SOP: LPR-BSL-S-VNBS HPLC
Bloodspots (cont'd)	Phenylalanine	Tandem Mass spectrometer LPR-BSL-S-TQD LC-MSMS
	Carnitines C8 & C10	
	Tyrosine	
	Leucine	
	Methionine	
	C5 / C5DC	Waters TMS LPR-BSL-M-IMMUNOSUPPRESSANT Tandem Mass Spectrometry
	<u>Special Biochemistry</u>	
EDTA Whole Blood	Cyclosporin	
EDTA Whole Blood	Tacrolimus	
EDTA Whole Blood	Sirolimus	
Cerebrospinal Fluid	Xanthochromia	UV/Vis Spectrophotometer LPR-BSL-M-XANTHOCHROMIA Scanning UV/Vis spectrophotometer
Renal and Gall Stones	Calculi analysis for chemical constitution	Nicolet i S10 FT-IR spectrophotometer LPR-BSL-SB-STONE
Serum	Protein electrophoresis	Helena V8 LPR-BSL-I-SPE
Serum	Immunotyping	Helena V8 LPR-BSL-I-SPE LPR-BSL-I-BJP



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)</u>	In house documented procedures incorporating manufacturers' instructions where relevant using the following instrumentation and methodology:
Serum	Immunofixation	Helena V8, Helena SAS3 & SAS4 LPR-BSL-I-SPE
Urine	Bench Jones Protein	Helena V8, Helena SAS3 & SAS4 LPR-BSL-I-BJP LPR-BSL-I-SPE
Serum	Serum light free chains	Binding site Optilite LPR-BSL-I-OPTI
Serum	Osmolality	Advanced Instruments Osmometer LPR-BSL-SB-OSMOPRO
Urine		
Faeces	Calprotectin	Phadia UniCap 250 LPE-BSL-SB-Calprotectin immunoassay
Serum	Tryptase	Phadia UniCap 250 LI-BSL-M-TRYPTASE CAP immunoassay
Faeces	Faecal Immunochemical Testing (FIT)	Roche C702 LPR-BSL-AB-C702 LPR-BSL-SB-FITRoche FOB Gold NG
EDTA Whole blood	Glycated Haemoglobin	TOSOH G11 LPR-BSL-SB-HBA1C, HPLC
Serum	Alanine Aminotransferase (ALT)	Roche c702: LPR-BSL-AB-C702 IFCC PYP/UV absorbance
Serum	Albumin	Roche c702: LPR-BSL-AB-C702 Colorimetric BCP
Serum	Alcohol (Ethanol)	Roche c702: LPR-BSL-AB-C702 Enzymatic with alcoholdehydrogenase



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)</u>	In house documented procedures incorporating manufacturers' instructions where relevant using the following instrumentation and methodology:
	<u>Automated Biochemistry</u>	
Serum	Alkaline Phosphatase (ALP)	Colorimetric/ Roche c702: LPR-BSL-AB-C702 Colorimetric
Serum	Procalcitonin	Roche E801 LPR-BSL-AB-E801
Serum	Rheumatoid factor	Roche E801 LPR-BSL-AB-E801
Serum	BNP	Roche E801 LPR-BSL-AB-E801
Serum	Thyroglobulin	Roche E801 LPR-BSL-AB-E801
Serum	Alpha-1-Antitrypsin (AAT)	Roche c702: LPR-BSL-AB-C702 Immunoturbidometric
Serum	Alpha fetoprotein (AFP)	Roche e801: LRP-BSL-AB-E801 ECL/Sandwich
Serum	Amylase	Roche c702: LPR-BSL-AB-C702 Enzymatic Colorimetric
EDTA Plasma	Ammonia	Roche c702: LPR-BSL-AB-C702 Enzymatic
Serum	Aspartate Aminotransferase (AST)	Roche c702: LPR-BSL-AB-C702 IFCC PYP UV absorbance
Serum	Anti-thyroglobulin	Roche e801: LRP-BSL-AB-E801 ECL/Sandwich
Serum	Beta-2-Microglobulin (B2M)	Roche c702: LPR-BSL-AB-C702 Immunoturbidimetric
Serum	Beta-Human Chorionic Gonadotropin (BHCG)	Roche e801: LRP-BSL-AB-E801 ECL/Sandwich



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)</u>	In house documented procedures incorporating manufacturers' instructions where relevant using the following instrumentation and methodology:
	<u>Automated Biochemistry</u>	
Serum	Bicarbonate (CO ₂)	Roche c702: LPR-BSL-AB-C702 Absorbance
Serum	Bile acids	Roche c702: LPR-BSL-AB-C702 Enzymatic colorimetric assay
Serum	N-Terminal B-Type Natriuretic Peptide (BNP)	Roche e801: LRP-BSL-AB-E801 ECL/Sandwich
Serum	Cancer Antigen 15-3 (CA15-3)	Roche e801: LRP-BSL-AB-E801 ECL/Sandwich
Serum	Carbohydrate Antigen 19-9 (CA19-9)	Roche e801: LRP-BSL-AB-E801 ECL/Sandwich
Serum	Cancer antigen 12-5 (CA125) Calcium	Roche e801: LRP-BSL-AB-E801 ECL/Sandwich
Serum	Calcium	Roche c702: LPR-BSL-AB-C702 Photometrical
Serum	Carbamazepine	Roche c702: LPR-BSL-AB-C702 KIMS
Serum	Caeruloplasmin	Roche c702: LPR-BSL-AB-C702 Immunoturbidimetric
Serum	Carcinoembryonic antigen (CEA)	Roche e801: LRP-BSL-AB-E801 ECL/Sandwich
Serum	Chloride	Roche c702 : LPR-BSL-AB-C702 Indirect ISE ion exchanger membrane
Serum	Cholesterol	Roche c702: LPR-BSL-AB-C702 Enzymatic,/Colorimetric
Serum	Creatine Kinase (CK)	Roche c702: LPR-BSL-AB-C702 UV



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)</u>	In house documented procedures incorporating manufacturers' instructions where relevant using the following instrumentation and methodology:
	<u>Automated Biochemistry</u>	
Serum	Complement C3	Roche c702: LPR-BSL-AB-C702 Immunoturbidimetric
Serum	Complement C4	Roche c702: LPR-BSL-AB-C702 Immunoturbidimetric
Serum	Conjugated bilirubin	Roche c702: LPR-BSL-AB-C702 Vandate oxidation
Serum	Cortisol	Roche e801: LRP-BSL-AB-E801 ECL/Competition
Serum	C-Peptide	Roche e801: LRP-BSL-AB-E801 ECL/Sandwich
Serum	C-Reactive Protein (CRP)	Roche c702: LPR-BSL-AB-C702 Particle Enhanced Immunoturbidimetric
Serum	Creatinine	Roche c702: LPR-BSL-AB-C702 Enzymatic Colorimetric
Serum	Dehydroepiandrosterone (DHEA)	Roche e801: LRP-BSL-AB-E801 ECL/Competition
Serum	Digoxin	Roche c702: LPR-BSL-AB-C702 KIMS
Serum	Ferritin	Roche e801: LRP-BSL-AB-E801 ECL/Sandwich
Serum	Free-T3	Roche e801: LRP-BSL-AB-E801 ECL/Competition
Serum	Free-T4	Roche e801: LRP-BSL-AB-E801 Competitive immunoassay
Serum	Folate	Roche e801: LRP-BSL-AB-E801 ECL/Competition



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)</u>	In house documented procedures incorporating manufacturers' instructions where relevant using the following instrumentation and methodology:
	<u>Automated Biochemistry</u>	
Serum	Follicle Stimulating Hormone (FSH)	Roche e801: LRP-BSL-AB-E801 ECL/Sandwich
Serum	Gamma-Glutamyl Transferase (GGT)	Roche c702: LPR-BSL-AB-C702 IFCC Enzymatic Colorimetric
Serum	Gentamicin	Roche e801: LPR-BSL-AB-E801 Cloned enzyme donor immunoassays
Serum	Glucose	Roche c702: LPR-BSL-AB-C702 Enzymatic UV, Hexokinase
Serum	Growth Hormone (hGH)	Roche e801: LRP-BSL-AB-E801 ECL/Sandwich
Serum	Haptoglobin	Roche c702: LPR-BSL-AB-C702 Immunoturbidimetric
Serum	Human Chorionic Gonadotropin (HCG)	Roche e801: LRP-BSL-AB-E801 ECL/Sandwich
Serum	High Density Lipoprotein (HDL) Cholesterol	Roche c702: LPR-BSL-AB-C702 Homogeneous enzymatic colorimetric
Serum	High sensitivity Oestradiol (hs-E2)	Roche c702: LPR-BSL-AB-C702 Colorimetric Diazo
Serum	IgA	Roche c702: LPR-BSL-AB-C702 Immunoturbidimetric
Serum	IgG	Roche c702: LPR-BSL-AB-C702 Immunoturbidimetric
Serum	IgM	Roche c702: LPR-BSL-AB-C702 Immunoturbidimetric
Serum	Insulin	Roche e801: LRP-BSL-AB-E801 ECL/Sandwich



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	<u>Automated Biochemistry</u>	
Serum	Intact-Parathyroid Hormone (PTH)	Roche e801: LRP-BSL-AB-E801 ECL/Sandwich
Serum	PTH (Intra-operative)	Roche e801: LRP-BSL-AB-E801 ECL/Sandwich
Serum	Iron	Roche c702: LPR-BSL-AB-C702 Colorimetric
Fluoride Oxalate Plasma	Lactate	Roche c702: LPR-BSL-AB-C702 Colorimetric
Serum Cerebrospinal Fluid	Lactate Dehydrogenase (LDH)	Roche c702: LPR-BSL-AB-C702 UV
Serum	Luteinizing Hormone (LH)	Roche e801: LRP-BSL-AB-E801 ECL/Sandwich
Serum	Lithium	Roche c702: LPR-BSL-AB-C702 Colorimetric
Serum	Magnesium	Roche c702: LPR-BSL-AB-C702 Colorimetric endpoint
Serum	Paracetamol	Roche c702: LPR-BSL-AB-C702 KIMS
Serum	Phenobarbitone	Roche c702: LPR-BSL-AB-C702 Colorimetric
Serum	Phenytoin	Roche c702: LPR-BSL-AB-C702 KIMS
Serum	Phosphate	Roche c702: LPR-BSL-AB-C702 Molybdate UV
Serum	Potassium	Roche c702 : LPR-BSL-AB-C702 Indirect ISE membrane



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Serum	Procalcitonin	Roche e801: LRP-BSL-AB-E801 ECL/Sandwich
Serum	Progesterone	Roche e801: LRP-BSL-AB-E801 ECL/Competition
Serum	Prolactin	Roche e801: LRP-BSL-AB-E801 ECL/Sandwich
Serum	Rheumatoid Factor	Roche c702: LPR-BSL-AB-C702 Homogeneous enzyme immunoassay
Serum	Salicylate	Roche c702: LPR-BSL-AB-C702 UV Absorbance
Serum	Total Prostate Specific Antigen (PSA)	Roche e801: LRP-BSL-AB-E801 ECL/Sandwich
Serum	Tobramycin	Roche c702: LPR-BSL-AB-C702 Immunoturbidimetric
Serum	Sex Hormone Binding Globulin (SHBG)	Roche e801: LRP-BSL-AB-E801 ECL/Sandwich
Serum	Sodium	Roche c702 : LPR-BSL-AB-C702 Indirect ISE neutral carrier membrane
Serum	Testosterone	Roche e801: LRP-BSL-AB-E801 ECL/Competition
Serum	Theophylline	Roche c702: LPR-BSL-AB-C702 KIMS/Roche
Serum	Thyroglobulin	Roche e801: LRP-BSL-AB-E801 ECL/Sandwich
Serum	Total Bilirubin	Roche e801: LRP-BSL-AB-E801 ECL/Competition



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)</u>	In house documented procedures incorporating manufacturers' instructions where relevant using the following instrumentation and methodology:
	<u>Automated Biochemistry</u>	
Serum	Total Protein	Roche c702: LPR-BSL-AB-C702 Colorimetric
Serum	Transferrin	Roche c702: LPR-BSL-AB-C702 Immunoturbidimetric
Serum	Triglyceride	Roche c702: LPR-BSL-AB-C702 Enzymatic Colorimetric
Serum	High sensitivity Troponin T	Roche e801: LRP-BSL-AB-E801 ECL/Sandwich
Serum	Thyroid Stimulating Hormone (TSH)	Roche e801: LRP-BSL-AB-E801 ECL/Sandwich
Serum	Urate	Roche c702: LPR-BSL-AB-C702 Enzymatic colorimetric
Serum	Urea	Roche c702: LPR-BSL-AB-C702 Kinetic test with urease and glutamate dehydrogenase
Serum	Valproate	Roche c702: LPR-BSL-AB-C702 Homogeneous enzyme immunoassay
Serum	Vancomycin	Roche c702: LPR-BSL-AB-C702 Homogeneous enzyme immunoassay
Serum	Vitamin B12	Roche e801: LRP-BSL-AB-E801 ECL/Competition
Serum	Vitamin D	Roche e801: LRP-BSL-AB-E801 ECL/Competition
Urine	Calcium Creatinine Ratio	Calculated
Serum	CAPD Creatinine (Correct)	Calculated



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

Portsmouth Hospitals University NHS Trust

Issue No: 015 Issue date: 04 June 2025

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)</u>	In house documented procedures incorporating manufacturers' instructions where relevant using the following instrumentation and methodology:
	<u>Automated Biochemistry</u>	
Serum	Creat/Clear	Calculated
Serum	Estimated GFR (Females)	Calculated
Serum	Estimated GFR (Males)	Calculated
Serum	Lo.Dens.Lip (LDL)	Calculated
Urine	Protein Creatinine Ratio	Calculated
Serum	Free Testosterone	Calculated
Serum	Free Androgen Index	Calculated
Serum	Total Chol / HDL Chol Ratio	Calculated
Urine	Amylase	Roche c702: LPR-BSL-AB-C702 Enzymatic colorimetric
Urine	Albumin	Roche c702:LPR-BSL-AB-C702 Immunoturbidimetric
Urine	Calcium	Roche c702: LPR-BSL-AB-C702 Photometrical
Urine	Chloride	Roche c702: LPR-BSL-AB-C702 Indirect ISE ion exchanger membrane
Urine	Creatinine	Roche c702: LPR-BSL-AB-C702 Enzymatic colorimetric
Urine	Magnesium	Roche c702: LPR-BSL-AB-C702 Colorimetric endpoint
Urine	Phosphate	Roche c702: LPR-BSL-AB-C702 Molybdate UV
Urine	Potassium	Roche c702 LPR-BSL-AB-C702 Indirect ISE neutral carrier membrane



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)</u> <u>Automated Biochemistry</u>	In house documented procedures incorporating manufacturers' instructions where relevant using the following instrumentation and methodology:
Urine	Protein	Roche c702: LPR-BSL-AB-C702 Turbidimetric
Urine	Sodium	Roche c702 : LPR-BSL-AB-C702 Indirect ISE neutral carrier membrane
Urine	Urate	Roche c702: LPR-BSL-AB-C702 Enzymatic colorimetric
Serum	Urea	Roche c702: LPR-BSL-AB-C702 Kinetic test with urease and glutamate dehydrogenase
Cerebrospinal Fluid	Glucose	Roche c702: LPR-BSL-AB-C702 Enzymatic UV Hexokinase
Cerebrospinal Fluid	Total Protein	Roche c702: LPR-BSL-AB-C702 Turbidimetric



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Immunology examination activities for the purpose of clinical diagnosis</u>	In house documented procedures incorporating manufacturers' instructions where relevant using the following instrumentation and methodology:
	<u>Autoimmune Serology</u>	
Serum	Adrenal Gland Antibody	Inova tissue slides LPR-BSL-I-IIF Indirect Immunofluorescence ASP-1200 & manual preparation
Serum	Anti Sm	Dynex DS 2 & Organtec Kit LPR-BSL-I-ENAP Automated ELISA
Serum	Cardiolipin Abs. IgG	Dynex DS 2 & Organtec Kit LPR-BSL-I-CARDIOLIPIN Automated ELISA
Serum	ENA Profile (Recombinant)	Euroline ANA profile 3 Kit LPR-BSL-I-INNO Manual Immunoblot
Serum	HEp-2 cell ANA pattern	Inova tissue slides LPR-BSL-I-IIF Indirect Immunofluorescence ASP-1200 & manual preparation
Serum	Autoimmune Liver Panel (Smooth muscle/Mitochondrial/LKM/ANA)	Biosystems tissue slides LPR-BSL-I-IIF Indirect Immunofluorescence
Serum	Autoimmune Liver Titre	Inova slides LPR-BSL-I-IIF Indirect Immunofluorescence manual preparation
Serum	Perinuclear ANCA	Inova tissue slides LPR-BSL-I-IIF Indirect Immunofluorescence
Serum	Skin Autoantibodies IgG	Inova tissue slides LPR-BSL-I-IIF Indirect Immunofluorescence manual preparation
Serum	Skin Autoantibodies IgG	Inova tissue slides LPR-BSL-I-IIF Indirect Immunofluorescence manual preparation
Serum	Cyclic citrullinated peptide CCP (Titre)	Phadia UniCap 250 LPR-BSL-I-CCP CAP/ELiA immunoassay



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Immunology examination activities for the purpose of clinical diagnosis</u>	In house documented procedures incorporating manufacturers' instructions where relevant using the following instrumentation and methodology:
Serum	<u>Autoimmune Serology</u> Anti-Glomerular Basement Membrane antibodies	Launch DS2 ELISA LPR-BSL-I-GBM
Serum	<u>Allergy Testing</u> IgE to Almonds IgE to Amoxicilloyl IgE to Apple IgE to Aspergillus IgE to Banana IgE to Barley IgE to Bee venom IgE to Beef IgE to Brazil nut IgE to Cage Birds IgE to Carrot IgE to Cashew IgE to cat epithelium IgE to Chicken Meat IgE to Cladosporium IgE to Coconut IgE to Codfish IgE to Crab IgE to Chocolate/Cocoa IgE to Cherry IgE to Cheddar type Cheese IgE to Dog dander IgE to Egg IgE to Gluten IgE to Grape IgE to Grass pollen (gx1) IgE to Hazelnut IgE to horse dander IgE to House Dust Mite IgE to Kiwi Fruit IgE to Latex IgE to Lentil IgE to Milk IgE to Oats	Phadia UniCap 250 LPR-BSL-I-IC250, LPR-BSL-I-SIGE CAP/ELiA immunoassay



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Immunology examination activities for the purpose of clinical diagnosis</u>	In house documented procedures incorporating manufacturers' instructions where relevant using the following instrumentation and methodology:
Serum	<u>Allergy Testing</u> IgE to Onion IgE to Oranges IgE to Peach IgE to peanut IgE to Ara h2 IgE to Ara h8 IgE to Bet v1 IgE to Pear IgE to Pecan Nuts IgE to Penicillin G IgE to Penicillin V IgE to Pine Nut IgE to Pityrosporum IgE to Potato IgE to Rodent mixture IgE to Salmon IgE to Shrimp IgE to Strawberries IgE to Tree mixture (tx8) IgE to Walnut IgE to wheat Total IGE IgG to Budgerigar	Phadia UniCap 250 LPR-BSL-I-IC250, LPR-BSL-I-SIGE CAP/ELiA immunoassay
END		