


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 Accredited to ISO 15189:2012	University Hospitals Plymouth NHS Trust Issue No: 011 Issue date: 09 April 2025	
	Derriford Combined Laboratory University Hospitals Plymouth NHS Trust Derriford Hospital Derriford Plymouth Devon PL6 8DH	Contact: Kate Prior Tel: +44 (0) 1752 430097 E-Mail: kate.prior3@nhs.net Website: www.plymouthhospitals.nhs.uk
Testing performed at the above address only		

Site activities performed away from the locations listed above:

Location details	Activity
Derriford Combined Laboratory (Blood Bank) University Hospitals Plymouth NHS Trust Derriford Hospital Derriford Plymouth Devon PL6 8DH	Storage & issue of blood & blood products only
Cardiac Theatre University Hospitals Plymouth NHS Trust Derriford Hospital Derriford Plymouth Devon PL6 8DH	Storage & issue of blood & blood products only
Cardiac Intensive Care University Hospitals Plymouth NHS Trust Derriford Hospital Derriford Plymouth Devon PL6 8DH	Storage & issue of blood & blood products only



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Site activities performed away from the locations listed above:

Location details	Activity
Maternity Delivery and Theatre University Hospitals Plymouth NHS Trust Derriford Hospital Derriford Plymouth Devon PL6 8DH	Storage & issue of blood & blood products only
Theatre Suite (Level 2) University Hospitals Plymouth NHS Trust Derriford Hospital Derriford Plymouth Devon PL6 8DH	Storage & issue of blood & blood products only
Theatre Suite (Level 4) University Hospitals Plymouth NHS Trust Derriford Hospital Derriford Plymouth Devon PL6 8DH	Storage & issue of blood & blood products only
Peninsula NHS Orthopaedic Treatment Centre Brest Road Plymouth PL6 5XP	Storage & issue of blood & blood products only
St. Luke's Hospice Stamford Close Plymouth PL9 9XA	Storage & issue of blood & blood products only
Main Ward Plymouth Hospitals NHS Trust Tavistock Hospital Spring Hill Tavistock PL19 8LD	Storage & issue of blood & blood products only



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Site activities performed away from the locations listed above:

Location details	Activity
Renal Unit Plymouth Hospitals NHS Trust Renal Unit Plymbridge Road Estover Plymouth PL6 7FL	Storage & issue of blood & blood products only
NHS South Devon and Torbay CCG Main Ward South Hams Hospital Plymouth Road Kingsbridge Devon TQ7 1AT	Storage & issue of blood & blood products only



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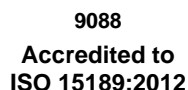
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DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUIDS	<u>Coagulation examinations for the purpose of clinical diagnosis and management</u>	Procedures documented in manufacturer's equipment manuals in conjunction with in-house procedures as specified below
Citrated Plasma	Clotting Tests	Stago STA-R Max: Viscosity clot detection method
	Prothrombin Time - PT Activated Partial Thromboplastin Time	SOP: DC0041, DC37
	Clauss Fibrinogen	SOP: DC0099
	INR Internal Normalised Ratio (INR)	Calculated using the patient's PT and reagent ISI Technoclone Ak-calibrant SOP: DC0041
	Lupus Anticoagulant	Viscosity clot detection method SOP DC0012
	Thrombophilia screening:	Chromogenic detection method
	Free Protein S Activity	SOP: DC0032
	Protein C Activity	SOP: DC0028
	Anti Thrombin III	SOP: DC0002
	Clotting factors: Factor II Factor V Factor VII Factor VIII Factor IX Factor X Factor XI Factor XII Factor XIII	Viscosity clot detection SOP DC0029 and DC0036
	Von Willebrand Factor Antigen	Immunoturbimetric method SOP: DC0027
	D-dimer (FDP)	SOP: DC0001
	Von Willebrand Factor Activity	SOP: DC0151



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Assessment Manager: SS1



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUIDS (cont'd)	<u>Immunology examinations for the purpose of clinical diagnosis</u> (cont'd)	Procedures documented in manufacturer's equipment manuals in conjunction with in-house procedures as specified below
Serum (unless otherwise specified) (cont'd)	<p>Extractable Nuclear Antigens;</p> <p>Anti - nRNP/Sm Anti - Sm Anti - SSA/Ro Anti - Ro- 52 Anti - SS- B/La Anti - SCL70 Anti - PM-Sci Anti - Jo1 Anti - CENBPB Anti - PCNA Anti - Nucleosomes Anti - Hhistone Anti - Ribosomal P</p> <p>Anti Myeloperoxidase (MPO) antibodies</p> <p>Anti Proteinase 3 (PR3) antibodies</p> <p>Investigation of Auto Immune Disease:</p> <p>Anti-Nuclear Antibodies</p> <p>Anti-Neutrophil Cytoplasmic Antibodies Cytoplasmic ANCA Perinuclear ANCA</p> <p>Liver Auto Antibody screen</p> <p>Anti Mitochondrial Antibodies Antinuclear Antibodies Anti Smooth Muscle Antibodies</p>	<p>EuroImm Profile 3. Euroline method Immunoblot Immunofluorescence microscopy SOP AUT/004</p> <p>Werfen BioFlash analyser Chemiluminescence SOP: AUT/029</p> <p>Manual indirect immunofluorescence using Rat Liver Kidney Stomach Tissue slides. Fluorescence microscopy SOP AUT/002</p> <p>Indirect Immunofluorescence Microscopy ANCA (ethanol FNH) kit fluorescence microscopy SOP AUT/008 and AUT/028</p> <p>Manual indirect immunofluorescence assay using innova tissue slides and fluorescence microscopy</p> <p>SOPs AUT/002, SOP AUT/003 and AUT/028</p>



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HUMAN BODY FLUIDS (cont'd)	<u>Immunology examinations for the purpose of clinical diagnosis</u> (cont'd)	Procedures documented in manufacturer's equipment manuals in conjunction with in-house procedures as specified below
Serum (unless otherwise specified) (cont'd)	<u>Anti Endomysial Autoantibodies:</u> IgA IgG <u>Skin Antibodies:</u> Skin Intracellular cement (Desmosome) Skin Basement membrane Haemophilus influenza type B antibodies Tetanus toxoid antibodies Total Pneumococcal antibodies <u>Immunology/ Histochemistry examinations for the purpose of clinical diagnosis</u>	Manual indirect immunofluorescence assay using innova tissue slides and fluorescence microscopy SOP: AUT/028 SOP: AUT/006 SOP: AUT/021 SOP: AUT/028 DS2 Analyser ELISA: Binding Site IgG anti HIB method SOP: ELI/027 and SOP: ELI/009 Binding site Tetanus Toxoid IgG SOP: ELI/027 and SOP: ELI/028
Peripheral Blood (EDTA) Bone marrow Aspirate CSF Fine needle Aspirate Pleural Fluid	Haematological malignancy investigations using abnormal intracellular and extracellular marker expression for: Acute Leukaemia Panel: CD2, CD34, CD7, CD34, HLA-DR, CD33, CD13, CD20, CD117, CD19, CD10, CD14 Chronic Leukaemia / Lymphoma panel: CD5, CD19, CD22, CD23, CD3, FMC7, Kappa, Lambda, CD25, CD4, CD10, CD103, CD38, CD20	Becton Dickinson FACSLytic flow cytometer fluorescent labelled monoclonal antibody panels, acquired via laser using hydrodynamic focussing SOP: IMMHI/013, IMMHI/043, IMMHI/002B, IMMHI/003B SOP: IMMHI/040, IMMHI/046, IMMHI/050, IMMHI/030, IMMHI/001



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HUMAN BODY FLUIDS (cont'd)	<u>Immunology/ Histochemistry examinations for the purpose of clinical diagnosis</u> (cont'd)	Procedures documented in manufacturer's equipment manuals in conjunction with in-house procedures as specified below
Peripheral Blood (EDTA) Bone marrow Aspirate CSF Fine needle Aspirate Pleural Fluid (cont'd)	Haematological malignancy investigations using abnormal intracellular and extracellular marker expression for: (cont'd) Lymphocyte Subset Analysis: TSET, CD19, CD56, CD3, CD4, CD8, CD4/CD8 Ratio T Cell profile: CD4%, CD3, CD4, CD8, CD4/CD8 Ratio PID: Primary Immunodeficiency B Cell Phenotyping (BSET) CD38, CD19, CD21, CD27, IgM, IgG	Becton Dickinson FACSLytic flow cytometer fluorescent labelled Monoclonal antibody panels, acquired via laser using hydrodynamic focussing SOP: IMMHI/001 IMMHI/30 SOP IMMHI/001 IMMHI/030 SOP; IMMHI/047 IMMHI/013
Peripheral Blood EDTA	PNH (Paroxysmal Nocturnal Haematuria) Screening CD59, CD15, CD33	Alexa 488 SOP: IMMHI/041 Becton Dickinson Fascanto II flow Cytometer: MA Hydro dynamic focusing SOP IMMHI/044 IMMHI/013
Bone Marrow	Myeloma Immunophenotyping: CD38, CD138, CD19+, CD56+	
Peripheral Blood EDTA	Hereditary Spherocytosis screening	Flow fluorescent expression EMA binding to RBC membrane. SOP: IMMHI/024
Peripheral Blood (Lithium Heparin)	Neutrophil Function	Oxidative burst measured by Flow Cytometry. SOP: IMMHI/015
Serum	Protein electrophoresis Alpha-1 globulins Alpha-2 globulins Beta globulins Gamma globulins	Helena V8 capillary zone electrophoretic separation SOP: PROT/027, PROT/025



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HUMAN BODY FLUIDS (cont'd)	<u>Immunology/ Histochemistry examinations for the purpose of clinical diagnosis</u> (cont'd)	Procedures documented in manufacturer's equipment manuals in conjunction with in-house procedures as specified below
Serum	Paraprotein Identification	Immunofixation by gel electrophoresis SOP: PROT/022
Urine	Bence Jones Protein Urine immunofixation of GAM Kappa / Lambda	Gel based Electrophoresis protein separation SAS-3 and SAS-4 systems and Immuno fixation SOP: PROT/023, SOP: PROT/024
Paired Serum and CSF	IgG Oligoclonal Bands	Electrophoretic separation of protein by isoelectric point. Agarose gel pH gradient using Helena Isoelectric system SOP: PROT/026
Whole Blood	Cryoglobulins	Gel based Electrophoresis protein separation SAS-3 and SAS-4 systems Immunofixation SOP: PROT/ 016 Thermofisher Phadia UniCap 250 Sandwich Immunoassay measuring high total binding capacity:
Serum	Total IgE Specific IgE antibodies: c1 Penicillin G c3 Penicillin V c6 Amoxycilloxyl d1 D.pteronyssinus e1 Cat dander	UNICAP/003 UNICAP/004



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HUMAN BODY FLUIDS (cont'd)	<u>Immunology/ Histochemistry examinations for the purpose of clinical diagnosis</u> (cont'd)	Procedures documented in manufacturer's equipment manuals in conjunction with in-house procedures as specified below
Serum (cont'd)	Specific IgE antibodies (cont'd): e3 Horse dander e5 Dog dander e6 Guinea pig epithelium e73 Rat epithelium e78 Budgerigar feathers e82 Rabbit epithelium ex71 Mixed feathers (goose, chicken, duck, turkey). ex72 Mixed caged bird feathers (budgerigar, canary, parakeet, parrot, finch) f1 Egg White f2 Cow's milk f3 Cod fish f4 Wheat f6 Barley f7 Oat f8 Maize f10 Sesame Seed f13 Peanut f14 Soybean f15 White bean f17 Hazel nut f18 Brazil nut f20 Almond f23 Crab f24 Shrimp f25 Tomato f26 Pork 27 Beef f33 Orange f35 Potato f36 Coconut f37 Blue Mussel f40 Tuna f41 Salmon f44 Strawberry	Thermofisher Phadia UniCap 250 Sandwich Immunoassay measuring high total binding capacity: UNICAP/004



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HUMAN BODY FLUIDS (cont'd)	<u>Immunology/ Histochemistry examinations for the purpose of clinical diagnosis</u> (cont'd)	Procedures documented in manufacturer's equipment manuals in conjunction with in-house procedures as specified below
Serum (cont'd)	Specific IgE antibodies (cont'd): f45 Yeast f48 Onion f49 Apple f75 Egg Yolk f79 Gluten f80 Lobster f81 Cheese (Cheddar) f83 Chicken f84 Kiwi f87 Melon f89 Mustard f92 Banana f93 Cacao f94 Pear f95 Peach f201 Pecan f202 Cashews f203 Pistachio f208 Lemon f212 Potato f218 Paprika f235 Lentil f242 Cherry f247 Honey f253 Pine nut f256 Walnut f259 Grape f279 Chilli Pepper f287 Red kidney beans f299 Sweet chestnut f309 Chickpea f319 Beetroot f416 Wheat Omega 5 Gliadin gx1 Grass mix - Cocksfoot grass, Fescue grass, Rye grass, Timothy Grass, Meadow grass. i1 Honeybee venom i3 Common Wasp (yellow jacket) k82 Latex	Thermofisher Phadia UniCap 250 Sandwich Immunoassay measuring high total binding capacity: UNICAP/004



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HUMAN BODY FLUIDS (cont'd)	<u>Immunology/ Histochemistry examinations for the purpose of clinical diagnosis</u> (cont'd)	Procedures documented in manufacturer's equipment manuals in conjunction with in-house procedures as specified below
Serum (cont'd)	Specific IgE antibodies (cont'd): k84 Sunflower seed m3 Aspergillus fumigatus mx1 Mould mix (m1, m2, m3, m6) m1 – Penicillium chrysogenum m2 – Cladosporium herbarum m3 – Aspergillus fumigatus m6 – Alternaria alternata rx1 Regional mix (g6, w6, w9, w21, t3 w9, w21, t3) g6 – Timothy grass w6 - Mugwort w21 Pellitory t3 – Silver Birch rx7 Regional mix (d1,e1,e3,e5,e82) d1 – (House dust mite) e1 – (Cat dander) e3 – (Horse dander) e5 – (Dog dander) e82 – (Rabbit epithelium) t3 – Silver birch tx1 Tree mix (t1, t3, t7, t8, t10) t1 – Box elder - Maple t3 – Silver Birch t7 – White Oak t8 – American Elm t10 - California Black Walnut w6 Mugwort (Artemisia) w9 Plantain w21 Wall Pellitory	Thermofisher Phadia UniCap 250 Sandwich Immunoassay measuring high total binding capacity: UNICAP/004



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HUMAN BODY FLUIDS (cont'd)	<u>Immunology/ Histochemistry examinations for the purpose of clinical diagnosis</u> (cont'd)	Procedures documented in manufacturer's equipment manuals in conjunction with in-house procedures as specified below
Serum (cont'd)	Chlorhexidine (C8) Alpha-gal (o215) Horse fly (i204) Pea (f12) Cow dander (e4) Lupin pollen (w207) Lupin Seed (f335) Scallop (f338) Alternaria alternate (m6) rAra h 2 Peanut (f423) rAra h 8 PR-10 (f352) rAra h 9 LTP (f427) rCor a 1 PR-10 ((f428) nCor a 9, Hazel nut (f440) rApi m 1 Phospholipase A2, Honeybee (i208) rVes v 1 Phospholipase A1, Common wasp (i211) rVes v 5 Common wasp (i209) rMal d 1 PR-10, Apple (f434) rMal d 3 LTP, Apple (f435) rPru p 3 LTP, Peach (f420) nGal d 1, Ovomuroid ((f233) nGal d 2, Ovalbumin (f232) rBet v 1 PR-10, Birch (t215)	Thermofisher Phadia UniCap 250 Sandwich Immunoassay measuring high total binding capacity: UNICAP/004
Serum	Mast Cell Tryptase	UNICAP250/008
Peripheral Blood EDTA	HLA Typing of Deceased Donors HLA-A, -B, -C DRB1 DRB3/4/5 -DQA1 DQB1 DPB1 DPA1	RT-PCR using LinkSeq kits, QuantStudio & SureTyper software. SOP HANDIMOL051 & SOP HANDIMOL052 LinkSeq - Backup method Luminex PCR-SSP (Bead array technology) SOP: HANDILUM002



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HUMAN BODY FLUIDS (cont'd)	<u>Immunology/ Histochemistry examinations for the purpose of clinical diagnosis</u> (cont'd)	Procedures documented in manufacturer's equipment manuals in conjunction with in-house procedures as specified below:
Peripheral blood EDTA Spleen or lymph nodes for deceased donors	HLA typing of patients, donors (living & deceased), and disease association studies HLA –A, -B, -C DRB1 DRB3/4/5 -DQB1	One Lambda Luminex PCR-SSO (Bead array technology) SOP: HANDILUM002
Peripheral blood EDTA	HLA B27 typing for disease Associations	PCR-SSP run on thermal cyclers Applied Biosystems 9700, Applied Biosystems Veriti & Techne TC412 with electrophoresis BioRad ATTO mini-PAGE (in-house primers) SOP: HANDIMOL032 SOP: HANDIMOL018
Peripheral blood EDTA	HLA typing for other disease associations: Coeliac (DQB1) Birdshot chorioretinopathy (HLA A) Behcet's (HLA B)	PCR-SSO (Bead array technology), One Lambda Luminex with analysis by HLA Fusion SOP: HANDILUM 002 SOP: HANDILUM 026 SOP: HANDILUM 032
Peripheral blood EDTA	HLA B*57:01 typing for Abacavir reactivity	PCR-SSP run on thermal cyclers Applied Biosystems 9700, Applied Biosystems Veriti & Techne TC412 with gel electrophoresis – BioRad ATTO mini-PAGE (in-house primers) SOP: HANDIMOL019 SOP: HANDIMOL026 SOP: HANDIMOL032



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HUMAN BODY FLUIDS (cont'd)	<u>Immunology/ Histochemistry examinations for the purpose of clinical diagnosis</u> (cont'd)	Procedures documented in manufacturer's equipment manuals in conjunction with in-house procedures as specified below:
Peripheral blood EDTA	Virtual cross matching for deceased donor kidneys and living donor kidneys	PCR-SSP run on thermal cyclers Applied Biosystems 9700, Applied Biosystems Veriti & Techne TC412 with gel electrophoresis BioRad ATTO mini-PAGE (in-house primers) SOP: HANDICALL016
Serum	HLA antibody screening to all common and well defined (CWD) HLA class I and II antigens (pos/neg)	Bead array technology; One Lambda Luminex with analysis by HLA Fusion SOP: HANDILUM005 SOP: HANDILUM011 SOP: HANDIFLOW007 SOP: HANDIFLOW018 SOP: HANDIFLOW037
Serum	HLA antibody identification to all common and well defined (CWD) HLA class I and II antigens	Bead array technology; One Lambda Luminex with analysis by HLA Fusion SOP: HANDILUM008 SOP: HANDIFLOW018 SOP: HANDIFLOW037 SOP: HANDIMOL024
Serum sample(s) from Recipient. EDTA (living) or spleen cadaveric) samples	Flow cytometric crossmatching for transplant Identifies HLA specific IgG antibodies on T and B cells which are an increased risk to transplant	3 colour flow cytometry using BD Flow Cytometer (in-house method) SOP: HANDICALL006 SOP: HANDIFLOW006 SOP: HANDIFLOW007 SOP: HANDIMOL024 SOP: TT/CALL/008



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HUMAN BODY FLUIDS (cont'd)	<u>Blood Transfusion examinations to assist in clinical investigations</u>	Procedures documented in manufacturers equipment manuals in conjunction with documented procedures as specified below:
Whole blood EDTA	Blood group determination By detection and Identification of red cell Antigens: A Rh D Positive AB Rh D Positive B Rh Positive O Rh Positive A Rh Negative AB Rh Negative B Rh Negative O Rh Negative	BIO RAD Monoclonal antibody column agglutination technology, automated using the Immucor NEO blood grouping analyser SOP: BB111 and:
Whole Blood EDTA/ Red cells	Red cell atypical antibody Screening for the detection of: Rhesus system antibodies: Anti Cw, anti C, anti c, Anti D anti E, anti e. Kell system antibodies: anti K, anti k, anti Kpa, anti Kpb. Kidd system antibodies: anti Jka, anti Jkb. Duffy system antibodies: anti Fya, anti Fyb. Lutheran system antibodies: Lua, Lub. MNS system antibodies: anti M, anti N, anti s. Lewis system antibodies: anti Lea, anti Leb. P system: anti P	Using phenotyped red cell screening cells on automated Immunocor NEO blood group Analyser SOP: BB111
Whole Blood EDTA	Direct Antiglobulin Test (DAT)	BIO RAD column agglutination technology, using automated using the Immucor NEO blood grouping analyser SOP: BB016
Whole blood EDTA	Manual ABO and Rh Blood Grouping and Atypical Antibody screening:	Manual techniques using BIO RAD Column agglutination technology and tube methods, using monoclonal antibodies and phenotyped red cells SOP: BB102



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HUMAN BODY FLUIDS (cont'd)	<u>Blood Transfusion examinations to assist in clinical investigations</u> (cont'd)	Procedures documented in manufacturers equipment manuals in conjunction with documented procedures as specified below:
Plasma EDTA	Automated or Manual Atypical Investigation and identification by Indirect Antiglobulin Test (IAT)	Automated Capture R technology using the Immucor NEO blood grouping analysers. Manual using IAT BIO-RAD Column agglutination technology. SOP: BB062
Plasma EDTA	Antibody titration	Automated techniques using the Immunocor NEO blood grouping analysers SOP: BB090
Red Cells	Antibody Elution	Manual techniques using BIO RAD Column agglutination technology and tube methods SOP: BB103
Red Cells	Red Cell Phenotyping	Manual techniques using BIO RAD Column technology using monoclonal antibodies. SOP: BB23
Red Cells	Feto Maternal Haemorrhage Quantitative method	Red Cell Automated Flow Cytometry - BD FACSLytic SOP: BB058
Plasma	Manual Crossmatch of Red Cell units for transfusion	Manual techniques using tube and BIO RAD column technology. SOP: BB010



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemical examinations for the purpose of clinical diagnosis</u>	Abbott Architect c16000 analyser SOP: ARC 001 SOPs: ARC 010 to ARC 019 inclusive and method sheets
Serum Plasma (unless otherwise stated)	Acetaminophen	Enzymatic/Colorimetric
	Alkaline Phosphatase	Para-Nitrophenyl Phosphate
	Albumin	Dye binding Bromocresol green
	ALT	NADH (without P-5'-P)
Including urine	Amylase	CNPG3 Substrate
EDTA Plasma	Ammonia	Glutamate Dehydrogenase
Urine	Amphetamine	Enzyme Immunoassay (EMIT)
	Alpha 1 Antitrypsin	Immunoturbidimetric
	AST	NADH (without P-5'-P)
	Bilirubin (total)	Diazonium Salt
Urine	Benzodiazepine	Enzyme Immunoassay (EMIT)
	Bicarbonate (CO2)	PEP carboxylase
Including Urine	Calcium	Arsenazo III Dye
	Calcium (Adjusted)	Calculated: Calcium+(0.017 x (43- albumin)
	Cholesterol	Enzymatic
Serum Plasma	Cholesterol HDL ratio (CHDLR)	Calculated = Cholesterol / HDL
Including Plasma Urine	Chloride	Indirect Ion Selective electrode
Urine	Cocaine	Enzyme Immunoassay (EMIT)
	Carbamazepine	Particle-enhanced turbidimetric inhibition immunoassay (PETINIA)
	C3	Immunoturbidimetric



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Serum Plasma (unless otherwise stated) (cont'd)	C4	Immunoturbidimetric
Including Urine	Creatinine	Kinetic Alkaline Picrate (jaffe reaction)
	Creatine Kinase (CK)	NAC (N-acetyl-L-cysteine)
	C Reactive Protein (CRP)	Immunoturbidimetric
	eGFR	Calculated: EGFR EPI Calculation applied
Including Urine	Ethanol	Alcohol dehydrogenase
	Gentamicin	Particle enhanced turbidimetric inhibition immunoassay (PETINIA)
	Globulin	Calculated = Total Protein - Albumin
Including CSF	Glucose	Hexokinase/G-6- PDH
	GGT	L-Gamma-glutamyl-3-carboxy-4-nitroanilide substrate
	HDL Cholesterol	Homogenous accelerator selective detergent
	Haptoglobin	Immunoturbidimetric
	IgA	Immunoturbidimetric
	IgG	Immunoturbidimetric
	IgM	Immunoturbidimetric
	Iron	Ferene
Plasma	Lactate	Oxidation of lactate to pyruvate



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Issue No: 011 Issue date: 09 April 2025

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUIDS (cont'd)	<u>Biochemical examinations for the purpose of clinical diagnosis</u> (cont'd)	Abbott Architect c16000 analyser SOP: ARC 001 SOPs: ARC 010 to ARC 019 inclusive and method sheets
Serum Plasma (unless otherwise stated) (cont'd)	LDH Lactate Dehydrogenase	IFCC lactase to pyruvate (NADH)
	LDL	Calculated: Cholesterol -(Trig / 2.21) + HDL
	Lipase	Quinone Dye
	Lithium	Colorimetric
Including Urine	Magnesium	Arsenazo
Urine	Methadone	Enzyme Immunoassay (EMIT)
Urine	Micro Albumin	Immunoturbidimetric
Urine	Micro Albumin Creatinine ratio (MCR)	Calculated: = microalbumin / creatinine
Urine	Opiate	Enzyme Immunoassay (EMIT)
	Non-HDL Cholesterol (NHDL)	Calculated: = Cholesterol - HDL
	Phenobarbitone	Particle- enhanced turbidimetric inhibition Immunoassay (PETINIA)
	Phenytoin	Enzyme Immunoassay
Including Urine	Phosphate	Phosphomolybdate
Including Urine	Potassium	Indirect Ion Selective electrode
Urine	Protein Creatinine ratio (PCR)	Calculated = (Urine protein / Urine creatinine) x 100
	Rheumatoid Factor	Immunoturbidimetric
	Salicylate	Enzymatic/colorimetric
Including Urine	Sodium	Indirect Ion Selective electrode
	Theophylline	Enzyme Immunoassay
Urine	TH5Q2 (Cannabis)	Enzyme Immunoassay (EMIT)



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemical examinations for the purpose of clinical diagnosis</u> (cont'd)	Abbott Architect c16000 analyser SOP: ARC 001 SOPs: ARC 010 to ARC 019 inclusive and method sheets
Serum Plasma (unless otherwise stated) (cont'd)	Tobramycin	Particle-enhanced Turbidimetric Immunoassay (PETINIA)
	Total Protein (Biuret)	Biuret/Immunoturbidimetric
	Transferrin	Immunoturbidimetric
	Transferrin saturation % TRF	Calculated = Iron x 3.98 / Transferrin
	Triglyceride	Glycerol Phosphate Oxidase
	Unconjugated Bilirubin (UCBIL)	Calculated: = T. Bilirubin – Conj. Bilirubin
Including Urine	Urate	Uricase
Including Urine	Urea	Urease
Urine	Urine Calcium Creatinine ratio (UCCR)	Calculated = urine calcium / urine creatinine
Urine and CSF	Total Protein	Benezethonium chloride
Urine	Urine 24 hour (Calcium, creatinine, urate, protein, microalbumin, magnesium, sodium, potassium, chloride, phosphate, urea).	Calculated = Analyte x (urine volume /1000)
	Valporate	Homogeneous microparticle – enhanced turbidimetric immunoassay
	Vancomycin	Particle-enhanced Turbidimetric Immunoassay (PETINIA)
	Wako Direct Bilirubin L Type	Vanadate oxidation



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemical examinations for the purpose of clinical diagnosis</u> (cont'd)	Architect i2000: Abbott Chemiluminescent Microparticle Immuno Assay (CMIA) SOP: ARC 003 + Insert on board
Serum Plasma (unless otherwise stated) (cont'd)	Anti - Thyroid Peroxidase AFP (Alpha Fetoprotein) bHCG BNP - (Brain Natriuretic Peptide) B12 (Vitamin) CA-125 CA –19-9 CEA Cortisol Digoxin Oestradiol Ferritin FSH (Follicle Stimulating Hormone) Folate Free T3 Free T4 LH (Luteinising Hormone) Methotrexate Prolactin (Macroprolactin) Progesterone PTH (Parathyroid Hormone) PSA (Total Prostate Specific Antigen)	



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemical examinations for the purpose of clinical diagnosis</u> (cont'd)	Architect i2000: Abbott Chemiluminescent Microparticle Immuno Assay (CMIA) SOP: ARC 003 + Insert on board
Serum Plasma (unless otherwise stated) (cont'd)	SHBG (Sex Hormone Binding Globulin) Testosterone hsTroponin I TSH (Thyroid Stimulating Hormone) Total Vitamin D Free Androgen Index (FAI)	Calculated: = (Testosterone/SHBG) x 100
Whole blood	Therapeutic Drug monitoring Ciclosporin Tacrolimus Sirolimus	LCMS WatersAcquity TDD method for measurement of immunosuppressant drugs SOP: CSI 107 Agilent tech 1260: HPLC with UV Detection
Serum	Vitamin A, Vitamin E	SOP: CSI 111
Urine	Metanephrines: Metadrenaline Normetadrenaline 3-Methoxytyramine	SOP: CSI 114
Urine	5HIAA (5 hydroxyindole acetic acid)	SOP: CSI 133



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemical examinations for the purpose of clinical diagnosis</u> (cont'd)	Procedures documented in manufacturers equipment manuals in conjunction with documented procedures as specified below:
Serum	AMH (Anti Mullerin Hormone) Growth Hormone Thyroglobulin Anti Thyroglobulin	Access2. Beckman Chemiluminescent Microparticle Immunoassay SOP: CSI137
Urine	Drugs of Abuse: Opiate Identification including Buprenorphine Tramadol	LC-MS, Isotope dilution LC tandem mass spectrometry SOP: CSI 109
Faeces	Calprotectin	Phadia 250 assay SOP: CSI 095 Fluorezyme immunoassay (EiLA)
Sweat	Chloride	Sherwood Mk II 926S Chloride Analyser SOP: CSI 097
Urine Fluid	pH measurement	Jenway 3510 pH meter Potentiometry SOP: CSI 135
CSF	Bilirubin	Northstar Scientific Uvikon Spectrophotometry SOP: CSI 094
CSF	Oxyhaemoglobin	



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HUMAN BODY FLUIDS (cont'd)	<u>Haematology examinations for the purpose of clinical diagnosis</u>	
Whole blood EDTA (unless otherwise specified)	Peripheral blood film preparation and stain	Manual film preparation Abbott Alinity HS Slide maker and Stainer (SMS) (May Grunwald Giemsa stain) SOP DH00141
	Reviewing blood films - morphology examination and differential	Nikon Eclipse. Light Microscopy SOP DH0137 Manual examination by Microscopy SOP DH0011
Plasma EDTA	Glandular Fever screen (Infectious Mononucleosis screen)	Manual Monogen method Agglutination: SOP DH0018
	G6PD deficiency screening	Trinity BioTech G6PD Deficiency kit fluorescence under UV SOP DH0012
Whole blood EDTA	Haemoglobin Electrophoresis using acid and alkaline gels	Gel based electrophoresis protein separation SAS-3 and SAS-4 SOP: DH0016
	Detection of HRP2 and pLDH antigens for the identification of Malaria parasites	Carestart. Malaria HRP2 pLDH Combo test DH0021 and DH0112
	Detection and Identification of Malaria parasite species by Microscopy of stained preparations <i>Plasmodium falciparum</i> <i>Plasmodium malariae</i> <i>Plasmodium ovale</i> <i>Plasmodium vivax</i> <i>Plasmodium knowlesi</i>	Preparation and staining of Thick and Thin Films, Giemsa stain SOP: DH0021
CSF Fluid	Fluid Cytospin cell morphology	Aerospray Haematology Pro Light Microscopy SOP DH0101, DH0110 and DH0011
	Plasma Viscosity	Benson Viscometer Viscosity SOP DH0014



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HUMAN BODY FLUIDS (cont'd) Urine	<u>Haematology examinations for the purpose of clinical diagnosis</u> (cont'd) Hemosiderin	Procedures documented in manufacturers equipment manuals in conjunction with documented procedures as specified below: Manual slide preparation, stain and examination by light microscopy SOP DH00118
END		