


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>UKAS MEDICAL</p> <p>8681</p> <p>Accredited to ISO 15189:2022</p>	<h3>NHS Tayside</h3> <p>Issue No: 014 Issue date: 19 August 2025</p>	
	<p>Blood Sciences Dep't Level 7 Ninewells Hospital Dundee DD1 9SY</p>	<p>Contact: Alisson McPherson Tel: +44 (0)1382 660111 ext. 36718 E-Mail: alisson.mcpherson@nhs.scot Website: http://www.nhstayside.scot.nhs.uk</p>
<p>Testing performed by the Organisation at the locations specified below</p>		

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details	Activity	Location code
<p>Address NHS Tayside Blood Sciences Level 7 Ninewells Hospital (NW) Dundee DD1 9SY</p> <p>Local Contact: Alisson McPherson Tel: 01382 660111 ext:36718 Email: alisson.mcpherson@nhs.scot</p>	<p>Core Biochemistry Special Biochemistry Core Haematology Special Haematology Immunology</p>	A
<p>Address Department of Blood Sciences Perth Royal Infirmary (PRI) Perth PH1 1NX</p> <p>Local Contact: Paula King Tel: 01382 660111 ext: 55663 or 13400 Email: Paula.king5@nhs.scot</p>	<p>Core Biochemistry Core Haematology Blood Transfusion</p>	B
<p>Address Scottish Bowel Screening Programme Laboratory Blood Sciences Level 7 Ninewells Hospital (NW) Dundee DD1 9SY</p> <p>Local Contact: Catriona Anderson Tel: 01382 660111 ext 32579 Email: Catriona.anderson@nhs.scot</p>	<p>Scottish Bowel Screening Service</p>	A



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Site activities performed away from the locations listed above:

Location details	Activity	Location code
Blood Transfusion Laboratory Department of Blood Sciences Perth Royal Infirmary (PRI) Perth PH1 1NX Local Contact: Pamela Smith Tel: 01738 473338 ext 13338 Email: Pamela.smith31@nhs.scot	Blood Stock refrigerator	B
Blood Transfusion Laboratory Department of Blood Sciences Perth Royal Infirmary (PRI) Perth PH1 1NX Local Contact: Pamela Smith Tel: 01738 473338 ext 13338 Email: Pamela.smith31@nhs.scot	Blood Issue refrigerator	B
Haematology/Oncology Unit Perth Royal Infirmary (PRI) Perth PH1 1NX Local Contact: Layna Heller Tel: 01738 473338 Email: layna.heller@nhs.net	Blood Stock refrigerator	B
Phlebotomy Local Contact: Alisson McPherson Tel: 01382 660111 ext 33075 Email: alisson.mcpherson@nhs.scot	Venepuncture (not Paediatric)	A



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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 AND TISSUES	Blood Transfusion examination activities for the purpose of clinical diagnosis'	Documented In-house methods using:	
Venous Blood; red cells	Blood Grouping <ul style="list-style-type: none"> • A B O • Rh D 	BioRad iH500 analyser and associated testing protocols – fully automated BioRad cassette technology. Manual procedures by test tube technology-red cell agglutination, macroscopic visual detection. SOP: TRAN 109	B
	Antibody Detection and Identification	BioRad iH500 analyser and associated testing protocols – fully automated BioRad cassette technology using Antibody Screen-3 cell panel and Antibody Identification 11 cell panel Manual procedure BioRad cassette technology, macroscopic visual detection and Antibody Screen-3 cell panel, and Antibody Identification 11 cell panel SOP: TRAN 17	B
Venous Blood; red cells	Red Cell Phentotyping <ul style="list-style-type: none"> • Anti-A • Anti-B • Rh <ul style="list-style-type: none"> ○ Cc ○ D ○ Ee • Kell • Duffy a and b • Kidd a and b • MNSs 	Manual methods and SOP TRAN 19	B
Venous Blood; red cells	Electronic Issue	BioRad iH500 analyser, Traceline, Proteus LIMS and SOP TRAN 11 and TRAN 109	B
Venous blood; plasma	Compatibility testing of patients plasma with donor cells	Manual procedure BioRad cassette technology, macroscopic visual detection and SOP TRAN 11	B



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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 AND TISSUES (cont'd)	<u>Haematology</u> examination activities for the purpose of clinical diagnosis'	Documented In-house methods using:	
Whole blood: EDTA	FBC <ul style="list-style-type: none"> • Haemoglobin estimation • Red cell and platelet counts • Haematocrit • Differential white cell count • Reticulocyte • MCV • MCH • MCHC 	ADVIA 2120i series Haematology and SOP's CORE 6 Colorimetric Laser light scatter Calculated parameter from MCV and RBC Laser and light scatter and light absorbance Laser light scatter and absorbance Calculated parameters Calculated parameters Calculated parameters	A, B
Whole blood :EDTA,	Film selection and Preparation	SOP CORE 10- validation/selection Advia Autoslide maker (MGG) SOP CORE 25 Modified Wright's blood smears by Hematek SOP SPEC 51	A, B A A, B
	Film reporting WBC Differential	SOP CORE 8 SOPCORE 21	A, B A, B
Whole Blood EDTA	<u>Hb Screening</u> <u>HbA</u> <u>HbA2</u> <u>HbF</u> <u>HbS</u> <u>HbC</u> <u>HbD</u> <u>HbE</u> <u>HbF</u> Beta Thalassaemia	Sebia Capillary 3 Octa analyser using Electrophoresis SPEC 63.12	A



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Haematology</u> examination activities for the purpose of clinical diagnosis' (cont'd)	Documented In-house methods using:	
Bone Marrow	<u>Bone marrow reporting of normal and abnormal morphologies</u>	May Grunwald/Giemsa staining SPEC 31 Siemens Hematek staining machine- SPEC 51 and Perls Prussian blue SPEC 31 and microscopy	A
Whole blood :EDTA	Malaria Parasite detection <ul style="list-style-type: none"> • P.falciparum • P.vivax • P.ovale • P.malariae • P knowlesi 	Giemsa stain, Clinitech rapid field stain and microscopy- SOP CORE 41, CORE 42	A, B
Whole blood :EDTA	Plasma Viscosity	Benson BV 200 analyser Detected by flow resistance SOP CORE 43	A
Whole Blood: Citrated	Blood Coagulation <ul style="list-style-type: none"> • Prothrombin time <ul style="list-style-type: none"> ○ INR • Activated Partial Thromboplastin Time • Fibrinogen estimation Clauss method • Thrombin Time including correction with protaminsulphate • 50/50 mixing studies 	ACL TOP 350 (B) /550 (A)/ 750 (A) Turbidimetric method Clot detection by optical rate of change of absorbance end point being the maximum rate of change SOP COAG 87	A, B
		Turbidimetric method SOP COAG 88	A, B
		Turbidimetric method SOP COAG 74	A, B
		Turbidimetric method SOP COAG 75	A, B
		Turbidimetric method SOP COAG 80	A, B
	Actin FS		A, B



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Haematology</u> examination activities for the purpose of clinical diagnosis' (cont'd)	Documented In-house methods using:	
Whole Blood: Citrated (cont'd)	Blood Coagulation (cont'd)	ACL TOP 300 (B) /550 (A)/ 750 (A)	
	<ul style="list-style-type: none"> • D-Dimers 	Latex immunoassay SOP COAG 77	A, B
	<ul style="list-style-type: none"> • Anti Xa 	UFH Anti-Xa assay SOP COAG 91	A
	Factor assay	Turbidometric method.	A
	<ul style="list-style-type: none"> ○ II ○ V ○ VII ○ X 	Extrinsic Factors SOP COAG 90	
	<ul style="list-style-type: none"> ○ VIII ○ IX ○ XI ○ XII 	Intrinsic Factors SOP COAG 89	A
	<ul style="list-style-type: none"> • Refacto AF Factor VIII 	Turbidimetric method SOP COAG 98	A
	<ul style="list-style-type: none"> • FVIII Inhibitor assay • FIX Inhibitor assay 	Turbidimetric method SOP COAG 27	A
	DRVVT Screen and Confirm	Turbidimetric method SOP COAG 93	A
Whole Blood Citrated	Factor XIII	Werfen Factor XIII kit Quantitative antigenic Method SOP COAG	A
	Factor VIII	Werfen Chromogenix Coamatic FVIII kit- chromogenic assay SOP COAG 36	A



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Whole Blood: Citrated (cont'd)	Blood Coagulation (cont'd)	ACL TOP 300 (B)/550 (A)/ 750 (A)	
	Antithrombin	Chromogenic Assay SOP COAG 94	A
	Protein C	Chromogenic Assay SOP COAG 95	A
	Protein S	Immunoturbidimetric SOP COAG 96	A
	von Willebrand screen von Willebrand antigen assay	Immunoturbidimetric SOP COAG 97	A
	Ristocetin Co-Factor assay	Immunoturbidimetric SOP COAG 98	A
	Haemoglobin S	Detection of decreased solubility of haemoglobin S with Microgen S test SOP SPEC 55	A
	<u>Haematological Malignancies</u> examination activities for the purpose of clinical diagnosis	Documented In-house methods using:	
Whole Blood (EDTA)	Paroxysmal Nocturnal Haemoglobinuria (PNH)	Becton Dickinson Canto II Flow Cytometry via Multicolour Flow analysis using SOP TC 55	A
Whole Blood (EDTA), Bone Marrow (EDTA), Peripheral Blood Stem Cell Harvest product	Stem Cell Markers (CD34)	In concordance with ISHAGE guidelines Becton Dickinson Canto II Flow Cytometry-single platform multi colour flow analysis and SOP TC 56	A



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Haematological Malignancies</u> examination activities for the purpose of clinical diagnosis (cont'd)	Documented In-house methods using:	
Whole Blood (EDTA), Bone Marrow (EDTA), CSF, Ascitic fluids, Pleural fluids	Chronic Leukaemia Panel <ul style="list-style-type: none"> • Tube 1 – Lymphocyte screen • Tube 2 – B cell screen • Tube 3 – Hairy cell markers • Tube 4 Additional B&T cell markers 	Becton Dickinson Canto II Flow Cytometry via Multi colour flow analysis using SOP TC 57	A
	Acute Leukaemia Panel	Becton Dickinson Canto II Flow Cytometry Dual colour analysis via Fluorochromes FITC & PE using SOP 62	A
	<u>Chemistry</u> examination activities for the purpose of clinical diagnosis'	Documented In-house methods using:	
Serum/Plasma/Urine	Chloride Potassium Sodium	Siemens Atellica CH930 and TCORE SOPs -Detected by Potentiometry	A, B
Serum/Plasma/Urine	Calcium Creatinine Magnesium Phosphate Uric Acid Urea Protein Ammonium Lactate Ethanol	Siemens Atellica CH930 and TCORE SOPs -Detected by Spectrophotometry	A, B
Urine/CSF Plasma			A
			A
Plasma/CSF	Glucose		
Urine	Micro Albumin Amylase		A



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Chemistry</u> examination activities for the purpose of clinical diagnosis' (cont'd)	Documented In-house methods using:	
Serum/Plasma	Albumin Alkaline Phosphatase ALT Amylase AST Bicarbonate Bile Acids Cholesterol C-Reactive Protein Creatine Kinase Direct Bilirubin GGT HDL-Cholesterol Iron Lactate Dehydrogenase Lithium Methotrexate Paracetamol SACE Salicylate Total Bilirubin Total Protein Transferrin Triglycerides	Siemens Atellica CH930 using TCORE SOPs - Detected by Spectrophotometry	A,B
Serum/Plasma	Carbamazepine Gentamicin Phenytoin Theophylline Tobramycin Valproate Vancomycin Phenobarbitone Alpha 1 Antitrypsin Haptoglobin	Siemens Atellica CH930 and TCORE SOPs - Detected by Turbidimetry	A,B
CSF, Serum. Plasma	C3 C4 Beta 2 Microglobulin	Siemens Atellica Nephelometer 630 and SOP IPRO1 - Detected by Nephelometry	A
Serum		SOP IAIM 30	



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Serum	Alphafetoprotein CA125 CA153 CA199 CEA Digoxin Ferritin Hyaluronic acid Prolactin P3NP Cortisol FSH LH Progesterone Testosterone Folate	Siemens Atellica IM 1600 Chemiluminescence using TCORE SOPS	A
Serum Plasma	NT-proBNP Parathyroid Hormone Procalcitonin SHBG HS Troponin1 TIMP I TSHFree T3 Free T4 Oestradiol Vitamin B12		
Serum plasma	Free T4 HS Troponin 1 TSH PSA PTH Vitamin B12 Folate	Siemens Atellica IM1300 detected by chemiluminescence using TCORE SOPs	B



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Serum/Plasma/Urine	Osmolality	Advanced Instruments Model OSMO 1and SOP N CORE 125 - Detected by freezing point depression	A, B
Serum/Plasma	Potassium Sodium	Roche AVL 9180 Electrolyte Analyser and SOP N CORE 9, NNPT 42, PCORE 46 – Detected by Direct ISE Potentiometry	A, B
Whole blood	HbA1C	Menarini Hb NEXT and SOP NNPT 52, Detected by HPLC	A,



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Chemistry</u> examination activities for the purpose of clinical diagnosis' (cont'd)	Documented In-house methods using:	
Serum/Plasma	Chemistry- Immunoassay ACTH Anti-thyroglobulin Erythropoietin Growth Hormone Insulin Thyroglobulin	Immulite 2000 XPi detected by chemiluminescence using SOP NSPECIMM 32, 39	A
Serum/Urine	Bence Jones Proteins Serum Immunofixation Urine Immunofixation Oligoclonal bands	Sebia Hydrasys Electrophoresis and SOP NSPECPRO 7,19,20, 21	A
Serum	Serum Protein Electrophoresis Immunophenotyping	Sebia Capillarys Capillary Zone Electrophoresis and SOP NSPECPRO 32	A
Serum	Serum Kappa Free Light Chains analysis Serum Lambda Free Light Chains analysis Serum Kappa/Lambda Light Chain Ratio	Binding site Optilite analyser IAIM 31	A



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Urine	GCMS Confirmation Methadone, Opiates, Benzodiazapine, Amphetamines, Cocaine Barbiturates Buprenorphines Gabapentin Pregabalin	Thermoscientific Q Exactive Focus Transend 2 HRAM by high resolution accurate Mass Spectrometry SOP NSPECTOX 87	A
	UMETS <ul style="list-style-type: none"> • normetadrenaline, • metadrenaline • 3-methoxytyramine 	Thermo Fisher TSQ Altis LCMS SOP NALTIS 3	A
Whole Blood (k-EDTA)	Ciclosporin Tacrolimus	Thermo Fisher TSQ Altis LCMS SOP NALTIS 5	A
Whole Blood	pH Hydrogen ion pCO2 pO2 Actual Biocarbonate Base Excess Oxygen Saturation COHb	Siemens Rapidpoint 500e BGA performed by potentiometry using TNPT 20	A, B



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Chemistry</u> examination activities for the purpose of clinical diagnosis' (cont'd)	Documented In-house methods using:	
CSF	Xanthochromia	Northstar Bio UV Spectrophotometry Extraction/spectrophotometric kit method and SOP TSPECPRO1	A
	<u>Calculated Tests</u>		A
	<ul style="list-style-type: none"> • Albumin/creatinine ratio • Protein/creatinine ratio • Chol/HDL ratio • LDL-cholesterol • % saturation of transferrin • Free androgen index • Calculated free testosterone • iLFT • AKI • eGFR/CKD stage • Adjusted calcium • Calcium excretion index • Creatinine clearance • ELF 		
Faeces	Antibodies to Human Globulin Qualitative Faecal Immunochemical test (QFIT)	HM JACKarc analyser, detected by latex agglutination	A
	Detection and quantitation	Symptomatic NSPEC MET 10	
	Detection	<u>Scottish Bowel Screening</u> SBSL 32	A



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<p>HUMAN BODY FLUIDS AND TISSUES (cont'd)</p> <p>Blood (Serum)</p> <p>Blood (Serum)</p>	<p><u>Immunology</u> examination activities for the purpose of clinical diagnosis'</p> <p>Allergy Total IgE- Allergen Specific IgE Specific IgG Component testing Tryptase</p> <p>Autoantibodies to:</p> <ul style="list-style-type: none"> • Cardioliipin IgG/IgM • CCP • CTD Screen • IgG/IgM β2 glycoproteins • IgM RF • dsDNA • ENAs <ul style="list-style-type: none"> ○ CenpB ○ Jo-1 ○ La ○ polymerase 3RNA ○ Fibrillarin IgG ○ Ro 52 ○ Ro 60 ○ U1RNP ○ Scl-70 ○ Sm ○ Ribosomal P • GBM • MPO • PR3 • IgG TTG • IgA TTG • Thyroid Peroxidase 	<p>Documented In-house methods using:</p> <p>Phadia ImmunoCAP 250 FEIA by fluorescence detection of strength of antibody/antigen reactions IALL01 IALL02 IALL03 IALL04</p> <p>Phadia ImmunoCAP 250 by fluorescence detection of strength of antibody/antigen reactions using ELIA kits IAIM011 IAIM018 IAIM017 IAIM015 IAIM08 IAIM02 IAIM016 IAIM012</p>	<p>A</p> <p>A</p>



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Immunology</u> examination activities for the purpose of clinical diagnosis' (cont'd)	Documented In-house methods using:	
Serum	Extended liver autoantibodies- AMA M2, M2-3E, Sp100, PML, gp210, LKM-1, LC-1, SLA/LP, Ro52 Scleroderma panel- Scl-70, CENPA, CENPB, RP11, RP155, fibrillarin, NOR90, Th/To, PMScl-100, PMScl-75, Ku, PDGFR, Ro-52 ANA antibodies panel – Anti-RNP, Sm, RNP-70, RNP-A, RNP-C, SSA, Ro52, SSB, Scl70, PMScl, Jo-1, Cenp B, PCNA, dsDNA, Nucleosomes, Histones, Rib P protein, DFS70 Neuronal Paraneoplastic panel- amphiphysin, CV2, PNMA2 (Ma2Ta), Ri, Yo, Hu, Recoverin, Titin, Zic4, SOX1, GAD65, Tr.	EuroImmuno- Euroblot One Immunoblotting- flat bed scanner and Euroline Software analysis detected by optical detection. SOP IAIM 15, 25 and 10	A
Serum	Tetanus toxoid	Manual- Binding Site Ltd ELISA Colourmetric detection system IAIM028	A
Serum	Thrombospondin 7 autoantibodies	EuroImmuno – THSD7 transfected cells, manual staining analyser IAIM 29	A



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Immunology</u> examination activities for the purpose of clinical diagnosis' (cont'd)	Documented In-house methods using:	
Serum	Myositis 20 Extended autoantibody panel: Mi2a, Mi2b, TIF1GAMMA, MDA5, NXP2, SAE1, Ku, PM Scl-100, PM Scl-75, Jo-1, SRP, PL-7, PL-12, EJ, OJ, Ro52, Cn-1A, Ha, Ks and Zo	EuroImmuno BlotOne Immunoblotting processor, mounted camera, and EuroImmuno software analysis detected optical density IAIM 26	A
Serum	ANCA and GBM Immunoblot – PR3 MPO GBM	EuroImmuno BlotOne Immunoblotting IAIM 26	A
Whole Blood (EDTA)	Cellular Immunity Lymphocyte phenotyping:- <ul style="list-style-type: none"> • CD3 • CD4 • CD8 • CD19 • CD56+16 enumeration 	Becton Dickinson FACS Canto II plus SPA III and MDMS Flow Cytometry system with enumeration of lymphocytes. ICELL01	A
Whole Blood (EDTA)	B cell maturation markers	ICELL04	A
Whole Blood (EDTA)	Neutrophil respiratory burst	Glycotrope phagoburst kit ICELL05	A
Whole Blood (lithium heparin)	IGRA QuantiFERON	Dihydrorhodamine reduction assay detection using Flow cytometry on Becton Dickinson FACS Canto and Xbio FagoFlowEx Kit ICELL05 Manual- QIAGEN :- QuantiFERON Gold in Tube. ICELL07	A
Serum	PLA2R	Euroimmune ELISA SOP IAIM 29	A



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<p>HUMAN BODY FLUIDS AND TISSUES (cont'd)</p> <p>Plasma and serum</p>	<p><u>Immunology</u> examination activities for the purpose of clinical diagnosis' (cont'd)</p> <p>Immunofluorescence- Antibodies to;</p> <ul style="list-style-type: none"> • Adrenal • ANA • AMA • ANCA • Endomysial (IgA) • GPC • LKM • Neuronal (paraneoplastic) • Skins • ASM • Anti dsDNA Crithidia 	<p>Documented In-house methods using:</p> <p>Quantalyser staining platform Or Manual staining assay with Quantalink bidirectional requesting/results system with microscopic detection of fluorescent patterns.</p> <p>IAIM07 IAIM01 IAIM 015 IAIM025 IAIM02 IAIM016 IAIM06 IAIM 25 IAIM010 IAIM09 IAIM 25</p>	<p>A</p>
END			