Schedule of Accreditation

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UKAS MEDICAL **8681** **Accredited to ISO 15189:2022**	**NHS Tayside** **Issue No:** 016 **Issue date:** 07 July 2026	
	Blood Sciences Dep't Level 7 **Ninewells Hospital** **Dundee** **DD2 1GZ**	**Contact: Alisson McPherson** **Tel: +44 (0)1382 660111 ext. 36718** **E-Mail: alisson.mcpherson@nhs.scot** **Website: http://www.nhstayside.scot.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 NHS Tayside Blood Sciences Level 7 Ninewells Hospital (NW) Dundee DD2 1GZ	**Local Contact:** Alisson McPherson Tel: 01382 660111 ext:36718 Email: alisson.mcpherson@nhs.scot	Core Biochemistry Special Biochemistry Core Haematology Special Haematology Immunology	A
Address Department of Blood Sciences Perth Royal Infirmary (PRI) Perth PH1 1NX	**Local Contact:** Paula King Tel: 01382 660111 ext: 55663 or 13400 Email: Paula.king5@nhs.scot	Core Biochemistry Core Haematology Blood Transfusion	B
Address Scottish Bowel Screening Programme Laboratory Blood Sciences Level 7 Ninewells Hospital (NW) Dundee DD2 1GZ	**Local Contact:** Catriona Anderson Tel: 01382 660111 ext 32579 Email: Catriona.anderson@nhs.scot	Scottish Bowel Screening Service	A

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

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 • 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 Phentoyping
	• Anti-A
	• Anti-B
	• Rh
	  ○ 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

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)	Haematology examination activities for the purpose of clinical diagnosis'	Documented In-house methods using:	
Whole blood: EDTA	FBC	ADVIA 2120i series Haematology and SOP's CORE 6	A, B
	• Haemoglobin estimation	Colorimetric	
	• Red cell and platelet counts	Laser light scatter	
	• Haematocrit	Calculated parameter from MCV and RBC	
	• Differential white cell count	Laser and light scatter and light absorbance	
	• Reticulocyte	Laser light scatter and absorbance	
	• MCV	Calculated parameters	
	• MCH	Calculated parameters	
	• MCHC	Calculated parameters	
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	Hb Screening HbA HbA2 HbF HbS HbC HbD HbE HbF Beta Thalassaemia	Sebia Capillary 3 Octa analyser using Electrophoresis SPEC 63.12	A

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)	Haematology examination activities for the purpose of clinical diagnosis' (cont'd)	Documented In-house methods using:	
Bone Marrow	Bone marrow reporting of normal and abnormal morphologies	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 • 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	ACL TOP 350 (B) /550 (A)/ 750 (A)	
	• Prothrombin time o INR	Turbidimetric method Clot detection by optical rate of change of absorbance end point being the maximum rate of change SOP COAG 87	A, B
	• Activated Partial Thromboplastin Time	Turbidimetric method SOP COAG 88	A, B
	• Fibrinogen estimation Clauss method	Turbidimetric method SOP COAG 74	A, B
	• Thrombin Time including correction with protaminsulphate	Turbidimetric method SOP COAG 75	A, B
	• 50/50 mixing studies	Turbidimetric method SOP COAG 80	A, B
	Actin FS		A, B

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)	Haematology 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)	
	• D-Dimers	Latex immunoassay SOP COAG 77	A, B
	• Anti Xa	UFH Anti-Xa assay SOP COAG 91	A
	Factor assay ○ II ○ V ○ VII ○ X	Turbidometric method. Extrinsic Factors SOP COAG 90	A
	○ VIII ○ IX ○ XI ○ XII	Intrinsic Factors SOP COAG 89	A
	• Refacto AF Factor VIII	Turbidimetric method SOP COAG 98	A
	• 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

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)	Haematology 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)	
	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
	Haematological Malignancies 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 usingSOP 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

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>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 • 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	Siemens Atellica CH930 and TCORE SOPS -Detected by Spectrophotometry	A, B
Urine/CSF Plasma	Protein Ammonium Lactate		A
	Ethanol		A
Plasma/CSF	Glucose		
Urine	Micro Albumin Amylase		A

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)	Chemistry 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 Nephlometer 630 and SOP IPRO1 - Detected by Nephelometry	A
Serum		SOP IAIM 30	

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)	Chemistry examination activities for the purpose of clinical diagnosis' (cont'd)	Documented In-house methods using:	
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

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)	Chemistry examination activities for the purpose of clinical diagnosis' (cont'd)	Documented In-house methods using:	
Serum/Plasma/Urine	Osmolality	Advanced Instruments Model OSMO 1and SOP NCORE 125 - Detected by freezing point depression	A, B
Whole blood	HbA1C	Menarini Hb NEXT and SOP NNPT 52, Detected by HPLC	A,

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)	Chemistry 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

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)	Chemistry examination activities for the purpose of clinical diagnosis' (cont'd)	Documented In-house methods using:	
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 • 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

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)	Chemistry examination activities for the purpose of clinical diagnosis' (cont'd)	Documented In-house methods using:	
CSF	Xanthochromia	Northstar Bio UV Spectrophotmetry Extraction/spectrophotometric kit method and SOP TSPECPRO1	A
	Calculated Tests		
	• 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		A
Faeces	Antibodies to Human Globulin Qualitative Faecal Immunochemical test (QFIT)	HM JACKarc analyser, detected by latex aggluntiantion	A
	Detection and quantitaion	Symptomatic NSPEC MET 10	
	Detection	Scottish Bowel Screening SBSL 32	A

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)	Immunology examination activities for the purpose of clinical diagnosis'	Documented In-house methods using:	
Blood (Serum)	Allergy Total IgE- Allergen Specific IgE Specific IgG Component testing Tryptase	Phadia ImmunoCAP 250 FEIA by fluorescence detection of strength of antibody/antigen reactions IALL01 IALL02 IALL03 IALL04	A

Blood (Serum)	Autoantibodies to:
	• Cardiolipin IgG/IgM
	• CCP
	• CTD Screen
	• IgG/IgM β2 glycoproteins
	• IgM RF
	• dsDNA
	• ENAs
	  ○ 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
		Phadia ImmunoCAP 250 by fluorescence detection of strength of antibody/antigen reactions using ELIA kits
		IAIM011
		IAIM018
		IAIM017
		IAIM015
		IAIM08
		IAIM02
		IAIM016
		IAIM012
			A

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)	Immunology 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.	EuroImmun- Euroblot One Immunoblotting- flat bed scanner and Euroline Software analysis detected by optical detection. SOP IAIM 15, 25 and 10	A
	Tetanus toxoid	Manual- Binding Site Ltd ELISA Colourmetric detection system IAIM028	A
Serum	Thrombospondin 7 autoantibodies	EuroImmun – THSD7 transfected cells, manual staining analyser IAIM 29	A

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)	Immunology 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	EuroImmun BlotOne Immunoblotting processor, mounted camera, and EuroImmun software analysis detected optical density IAIM 26	A
Serum	ANCA and GBM Immunoblot – PR3 MPO GBM	EuroImmun BlotOne Immunoblotting IAIM 26	A
Whole Blood (EDTA)	Cellular Immunity Lymphocyte phenotyping;- • 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
		Dihydrorhodamine reduction assay detection using Flow cytometry on Becton Dickinson FACS Canto and Xbio FagoFlowEx Kit ICELL05	A
Whole Blood (lithium heparin)	IGRA QuantiFERON	Manual- QIAGEN :- QuantiFERON Gold in Tube. ICELL07	A
Serum	PLA2R	Euroimmune ELISA SOP IAIM 29	A

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)	Immunology examination activities for the purpose of clinical diagnosis' (cont'd)	Documented In-house methods using:	
Plasma and serum	Immunofluorescence-Antibodies to;	Quantalyser staining platform Or Manual staining assay with Quantalink bidirectional requesting/results system with microscopic detection of fluorescent patterns.	A
	• Adrenal	IAIM07	
	• ANA	IAIM01 IAIM 015	
	• AMA	IAIM025	
	• ANCA	IAIM02	
	• Endomysial (IgA)	IAIM016	
	• GPC	IAIM06	
	• LKM	IAIM 25	
	• Neuronal (paraneoplastic)	IAIM010	
	• Skins	IAIM09	
	• ASM	IAIM 25	
	• Anti dsDNA Crithidia		

END