


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 8815 Accredited to ISO 15189:2012	NHS Fife	
	Issue No: 007 Issue date: 26 January 2022	
	Department of Blood Sciences South Laboratory Victoria Hospital KIRKCALDY FIFE KY2 5AH	Contact: Ken Campbell Tel: +44 (0) 1592 2648055 Email: ken.campbell2@nhs.scot

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 Department of Blood Sciences South Laboratory Victoria Hospital KIRKCALDY FIFE KY2 5AH	Local contact Ken Campbell Tel: 01592 2648055 Email: ken.campbell2@nhs.scot	Routine Haematology and Coagulation Blood Transfusion Routine Biochemistry Toxicology Proteins
Blood Science Laboratory , Queen Margaret Hospital Whitefield Road Dunfermline KY12 0SU	As Above	Full blood count and differential only



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Site activities performed away from the locations listed above:

Location details	Activity
Blood Fridges QMH Theatre area	Blood Storage Only
Blood Fridge VHK , Theatres 1	Blood Storage Only
Blood Fridge VHK Haematology Unit	Blood Storage Only



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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 TISSUE	Chemistry examination activities for the purpose of clinical diagnosis	In house methods using manufacturer's instructions	
Serum/Plasma	Albumin Alcohol Alkaline Phosphatase Alpha 1 Antitrypsin ALT Ammonia Amylase Angiotensin Converting Enzyme AST Bicarbonate Bilirubin, direct Bilirubin, total Carbamazepine Chloride Cholesterol CK Creatinine C-Reactive Protein Gentamycin GGT Glucose HDL-Cholesterol IgA IgG IgM Iron Lactate LDH Lithium Mg Paracetamol Phenytoin Phosphate Salicylate Theophylline Total Protein Transferrin Triglyceride Urea Uric acid Valproate Vancomycin	In house methods using Roche Cobas 8000. Detected by Photometry. SOP series BSCORE33,34,35. (Jaffe and Enzymatic)	A



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HUMAN BODY FLUIDS AND TISSUE	Chemistry examination activities for the purpose of clinical diagnosis	In house methods using manufacturer's instructions	
Serum/Urine	AKI Albumin/Creatinine Ratio LDL Cholesterol eGFR Adjusted/corrected Calcium Protein/Creatinine Ratio Transferrin Saturation Free Androgen Index Calculated Free testosterone	In house methods using Roche Cobas 8000 By calculation By calculation By Friedwald Calculation By MDRD Calculation By calculation By calculation By calculation By calculation By calculation	A
Serum /Plasma/Urine/Fluid	Sodium Potassium Chloride	In house methods using Roche Cobas 8000. Detected by Ion selective electrode (ISE). SOP series BSCORE33,34,35	
CSF	Albumin/Microalbumin Calcium Creatinine Magnesium Phosphate (inorganic) Urea Uric Acid/Urate pH Protein Glucose Protein Lactate		



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HUMAN BODY FLUIDS AND TISSUE	Chemistry examination activities for the purpose of clinical diagnosis	In house methods using manufacturer's instructions	
Serum/Plasma	<u>Chemistry-Immunoassay</u> AFP CA125 CEA Cortisol Digoxin FSH hCG LH Macroprolactin NT Pro-BNP Oestradiol Parathyroid hormone (PTH) Procalcitonin Progesterone Prolactin PSA Free T3 Free T4 SHBG Testosterone High Sensitivity Troponin T TSH	In house methods using Roche Cobas 8000 Detected by electro-chemiilluminesce (ECLIA) SOPs;- BSCORE33, 34, 35.	
Serum/Plasma/Urine	Osmolality	Vitech Osmometer SOP BSSPEC21 by freezing point depression	
Whole Blood	pH arterial pCO2 pO2 Hydrogen ion concentration Sodium Potassium Ionised Calcium Glucose Lactate Total Haemoglobin Oxyhaemoglobin Carboxyhaemoglobin Desoxyhaemoglobin Methaemoglobin	In house methods using Cobas b123 Blood Gas analyser Detected by potentiometric. SOP-BSPOCT2 By cooximetry. SOP-BSPOCT2	



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Whole Blood	Base excess Standard bicarbonate Oxygen Saturation	In house methods using Cobas b123 Blood Gas analyser and SOP- BSPOCT2 By calculation	
Serum/Urine	Detection of paraprotein bands Monoclonal bands.	Using Sebia Capillarys 2 by Protein Electrophoresis and Immunofixation Using SOPs BSSPEC10, 11, 12, 13, 14	
Serum/Plasma	Cryoproteins/Cryoglobulins	By Differential temperature sedimentation/precipitation; Capillarys 2 capillary zone electrophoresis; SOP BSSPEC23, 12, 13 and 14	
Whole blood	HbA1C	TOSOH G8 and Detected by HPLC SOP- BSCORE62.	
CSF	Haemoglobin breakdown products (xanthochromia)	Uvikon XS. Detection by scanning spectrophotometry. SOP-BSSPEC2.	
Urine	Toxicology Amphetamine Benzodiazapine Buprenorphine Cannabis (THC) Cocaine Methadone Metabolite (EDDP) Opiates	Roche Cobas 8000- Measurement by kinetic interaction of microparticles in solution (KIMS). SOP-BSCORE 33,34,35.	
Urine	Opiate and amphetamine drug screen confirmations	Thermo ISQ LT Mass Spec Gas Chromatograph/mass spectroscopy (GCMS). SOP- BSSPEC 4,6,7.	
Serum/Plasma	Anti-TTG	Diason Liaison XL-By CLIA BSCORE 92	



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HUMAN BODY FLUIDS	<u>Blood Transfusion examination activities for the purpose of clinical diagnosis</u>	Documented In-house methods using:	
Venous Blood	Estimation of Foetal cells	Kleihauer by Acid Elution SOP : BSTRAN4 (Kleihauer SOP) BSTRAN5 (Kleihauer Laboratory Instructions)	A
	Blood Grouping <ul style="list-style-type: none"> • A B O • Rhesus: C, c, D, E, e, K 	Biorad IH1000 analyser and associated testing protocols – fully automated Biorad cassette technology. Rh-subgroup phenotyping cards SOP: BSTRAN7 (Diamed Testing SOP) BSTRAN136 (IH1000 analyser instructions)	A
	Antibody Detection	3 cell panels, 11 cell panels SOP: BSTRAN7 (Diamed Testing SOP) BSTRAN140 (Antibody ID and Referral Lab Instruction)	A
	Blood Grouping <ul style="list-style-type: none"> • A B O • K • Fya, Fyb • Jka, Jkb • Kpa • Lea, Leb • Lua • M, N, S, s 	Diamed Gel BSTRAN7 (Diamed testing SOP) BSTRAN135 (Manual Diamed Lab Instructions) Manual procedures by tube technology-red cell agglutination, macroscopic visual detection SOP: BSTRAN8 (Manual Tube Testing SOP) BSTRAN120 (Manual Tube Group Lab Instructions) BSTRAN123 (Manual Tube IAT Triple Screen Lab Instructions) BSTRAN124 Manual Tube Antibody ID Lab Instructions BSTRAN125 (Manual Patient / Donor Typing Instructions)	A



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HUMAN BODY FLUIDS	<u>Blood Transfusion examination activities for the purpose of clinical diagnosis</u>	Documented In-house methods using:	
Venous Blood	Compatibility testing of patients plasma with donor cells	Fully automated Biorad cassette technology SOP: BSTRAN7 (Diamed SOP) BSTRAN137 (IH1000 Automated X/M Laboratory Instructions) Manual procedures by Biorad cassette technology. SOP: BSTRAN7 (Diamed SOP) BSTRAN142 (Full Manual X/M Laboratory Instructions) Sample processing pathway- manual techniques SOP: BSTRAN8 (Manual Tube Testing SOP) BSTRAN126 (Manual Tube Cross match Lab Instructions)	A
Venous Blood	Direct Anti-Human Globulin	Biorad IH1000 analyser and associated testing protocols – SOP: BSTRAN7 (Diamed SOP) BSTRAN136 (IH1000 Analyser Testing Laboratory Instructions) Manual procedures by Biorad cassette technology. SOP: BSTRAN7 (Diamed Testing SOP) BSTRAN132 (Manual Direct Agglutination Test Laboratory Instructions) Direct anti globulin test including manual techniques SOP: BSTRAN8 (Manual Tube Testing SOP) BSTRAN122 (Manual Tube DAT Lab Instructions)	



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HUMAN BODY FLUIDS	<u>Haematology examination activities for the purpose of clinical diagnosis</u>	Documented In-house methods using:	
Venous Blood: Citrated	Blood Coagulation <ul style="list-style-type: none"> • Prothrombin time <ul style="list-style-type: none"> ○ INR • Factors assays (VII,VIII & IX) • Activated Partial Thromboplastin Time • Thrombin Time • Fibrinogen estimation <ul style="list-style-type: none"> ○ Clauss • D-Dimers • Anti Xa 	Sysmex CS 51000 Turbidimetric method Clot detection by optical rate of change of absorbance end point being the maximum rate of change SOPs BSCORE 3 BSSPEC26 Latex Chromogenic	A
	ESR	Visual detection of sedimentation interface by automated photometric detection (Inversa, Starssed) SOP: BSCORE8	A
Venous 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 	Sysmex XN 10 series Haematology Analysers SOP: BSCORE1 Colorimetric Laser light scatter Calculated parameter from Haemoglobin and RBC Laser and light scatter and light absorbance Laser light scatter and absorbance Calculated parameters Calculated parameters Calculated parameters	A



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HUMAN BODY FLUIDS	<p><u>Haematology examination activities for the purpose of clinical diagnosis</u></p> <p>FBC</p> <ul style="list-style-type: none"> • Haemoglobin estimation • Red cell and platelet counts • Haematocrit • Differential white cell count • MCV • MCH • MCHC 	<p>Documented In-house methods using:</p> <p>Sysmex XS 1000i Haematology Analysers SOP: BSPOCT6</p> <p>Colorimetric</p> <p>Laser light scatter</p> <p>Calculated parameter from Haemoglobin and RBC Laser and light scatter and light absorbance</p> <p>Calculated parameters Calculated parameters Calculated parameters</p>	B
Venous whole blood :EDTA	<p>Identifiacation of normal and abnormal morphologies including WBC differential count</p> <p>Malaria Parasite detection</p> <ul style="list-style-type: none"> • <i>P.falciparum</i> • <i>P.vivax</i> • <i>P.ovale</i> • <i>P.malariae</i> • <i>P.knowlesi</i> <p>Plasmodium falciparum parasataemia</p>	<p>Staining by SP10 – May Grunwald Giemsa stain – examined by microscopy SOP: BSCORE64</p> <p>Antigen testing with Humasis kit by Immunochromatographic interface and Thick film – Clintec Field Stain Thin Film – Giemsa pH7.2 stain Examined by microscopy</p> <p>SOP Malarial Parasites Thin Film – Giemsa pH7.2 stain. Enumeration by microscopy SOP: BSCORE16</p>	A



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HUMAN BODY FLUIDS	<u>Haematology examination activities for the purpose of clinical diagnosis</u>	Documented In-house methods using:	
Bone Marrow	Reporting of normal and abnormal morphologies	SP10 – May Grunwald Giemsa stain – examined by microscopy SOP: BSCORE64 Perl's Prussian Blue staining – Examined by microscopy. SOP: BSSPEC28	A
Venous whole blood :EDTA	Haemoglobin S	Detection of decreased solubility of Haemoglobin S with TCS Biosciences SOP: BSSPEC20	A
Venous whole blood :EDTA	Infectious Mononucleosis screen (EBV) antibody	Clearview 11 Card Qualitative Immunoassay agglutination interpreted by visual inspection. SOP: BSSPEC27	A
Venous whole blood :EDTA	G6PD screen	Trinity Biotech- visual fluorescence SOP: BSSPEC25	A
Urine	hCG screening test	Accusay screening kit- qualitative immunoassay SOP: BSSPEC1	A
Venous whole blood :EDTA	Haemoglobinopathy Screening o HbA2 o HbF o HbA	TOSOH G8 by HPLC SOP: BSSPEC24 And BSCORE 21	A
Venous whole blood :EDTA	Plasma Viscosity	Benson Viscometer SOP: BSCORE13	A
Serum	B12, Folate & Ferritin	Roche cobas8000 -Immunoassay BSCORE34 BSCORE65	A
END			