

# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <p>Accredited to ISO 15189:2012</p>	<b>NHS Highland</b>	
	Issue No: 006	Issue date: 03 September 2020
	<b>Blood Sciences Department</b> <b>Zone 3 Laboratories (1st Floor)</b> <b>Raigmore Hospital</b> <b>Old Perth Road</b> <b>Inverness</b> <b>IV2 3UJ</b>	<b>Contact: Zeshan Mahmood</b> <b>Tel: +44 (0)1463 704113</b> <b>E-Mail: zeshan.mahmood@nhs.net</b>
<b>Testing performed by the Organisation at the locations specified below</b>		

### Locations covered by the organisation and their relevant activities

#### Laboratory locations:

Location details		Activity	Location code
Address	Local contact		
Raigmore Hospital Zone 3 Laboratories (1st Floor) Raigmore Hospital Old Perth Road Inverness IV2 3UJ	Zeshan Mahmood Tel: 01463 704113 Email: zeshan.mahmood@nhs.net	Routine Clinical Chemistry and Immunochemistry Miscellaneous Chemistry Routine haematology and Coagulation, Haematinics Haemoglobinopathy screening	A
Laboratory Belford Hospital Belford Road Fort William PH33 6BS	Tina Webster Tel: 01397 707423 Email: tina.webster3@nhs.net	Routine Clinical Chemistry and Immunochemistry Routine haematology and Coagulation Manual Blood group serology	B
Laboratory Caithness General Hospital Bankhead Wick KW1 5NS	Zeshan Mahmood Tel: 01463704113 Email: zeshan.mahmood@nhs.net	Routine Clinical Chemistry Routine haematology and Coagulation Manual Blood group serology	C

#### Site activities performed away from the locations listed above:

Location details		Activity	Location code
Blood Fridge Belford	Pre-assessment Unit	Blood Storage only	D



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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	<u>Blood Transfusion examination activities for the purpose of clinical diagnosis</u>	In house documented procedures based on manual gel methods using-	
Blood	Blood Group <ul style="list-style-type: none"> <li>• A</li> <li>• B</li> <li>• O</li> <li>• Rh</li> </ul> Antibody detection	Diamed ABO and rhesus blood group BSBT 005,  Diamed antibody screen BSBT 06, 3 cell panel	B and C
	Crossmatch-Compatibility testing of patients' plasma with donor cells	Diamed crossmatch procedure BSBT 07	
	Direct Antiglobulin (DAGT)	Diamed direct antiglobulin test BSBT 008	
	<u>Biochemistry examination activities for the purpose of clinical diagnosis</u>	In house documented procedures based on equipment manuals and standard methods using- Advia 2400(SOP-BSL 117)	
Serum	Albumin Alkaline Phosphatase ALT Amylase AST Bicarbonate Bilirubin, total Calcium Cholesterol Creatinine(Jaffe) Creatine Kinase (CK) Gentamicin Gamma Glutamyl Transferase Glucose HDL-Cholesterol	Detected by Photometry.	A,



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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 TISSUE (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)</u>	In house documented procedures based on equipment manuals and standard methods using- Advia 2400(SOP-BSL 117)	A
Serum	Magnesium Urea Phosphate Triglycerides  Toxicology • Ethanol • Paracetamol • Salicylate  Urate  Lactate Dehydrogenase (LDH)	Detected by photometry cont.	A,
Plasma	Glucose  Lactate		A A, A
Serum	Bilirubin, direct Carbamazepine Creatinine(Enzymatic) Digoxin Lithium Phenobarbitone Phenytoin Serum Iron Theophylline Tobramycin Valproate Vancomycin		A
Plasma	Ammonia		
CSF	Glucose  Total protein	BSL 117	
Serum	Sodium Potassium Chloride	Detected by ISE	A,



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HUMAN BODY FLUIDS AND TISSUE (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)</u>	In house documented procedures based on equipment manuals and standard methods using- Siemens Advia 2400 (BSL 117) by ion selective electrodes	A
Urine	Creatinine ( Jaffe) Potassium Sodium Microalbumin Protein Urea	By Photometry	
Serum	Sodium Potassium Chloride Albumin Ethanol_ Alkaline Phosphatase_ Alanine Aminotransferase Amylase AST (GOT) Total Bilirubin Calcium Cholesterol Direct HDL Cholesterol Creatine Kinase CRP_ Gamma-Glutamyl Transferase Gentamicin_ Glucose Magnesium Acetaminophen Phosphate Salicylate Total Protein Triglycerides_ Urea Uric Acid	Siemens Advia 1800 SOP BSL 022 by Photometry	B and C
Serum Plasma	LDH Lactate		B
Serum	Creatinine ( Enzymatic)		B and C



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HUMAN BODY FLUIDS AND TISSUE (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)</u>	In house documented procedures based on equipment manuals and standard methods using-	
Serum	LDL Cholesterol eGFR Adjusted/corrected Calcium Free androgen index (FAI)	By Friedwald Calculation BSL 117 By CKD-EPI Calculation By calculation BSL 116 By calculation	A,
Urine	Albumin/Creatinine Ratio Protein/Creatinine Ratio Creatinine clearance	By calculation SOP BSL 117	A
Serum	<u>Chemistry-Immunoassay</u>  Ferritin Folic acid Free thyroxine  PSA TSH Vitamin B12  HCG	using Chemiluminescent Immunoassay (CMIA) Siemens Centaur XP (BSM 116) Siemens Centaur CP (BSL 010)	A B A, B
Plasma	High Sensitive Troponin-I (hsTrop-I)	Architect i2000 Immunoassay BSL 124	A
Serum	Troponin I	Siemens Centaur CP (BSL 010)	B
Whole Blood	Troponin I	iSTAT Cardiac Troponin I test cartridge- ELISA BSL327	C



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HUMAN BODY FLUIDS AND TISSUE (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)</u>	In house documented procedures based on equipment manuals and standard methods using-	
Serum	AFP CEA Cortisol FSH LH Oestradiol Progesterone Prolactin PTH CA125 Testosterone	Siemens Centaur XP (BSL 116) using suppliers' methods and measurement by immunoassay.	A
	SHBG	Siemens Immulite 2000Xpi (BSL 119) using suppliers methods and measurement by immunoassay.	A
	Beta-2-microglobulin		
Whole blood	Tacrolimus	Abbott Architect supplier method and measurement by immunoassay BSL 121	A
	<u>Miscellaneous Biochemistry</u>		
CSF	Xanthochromia	Suppliers (Perkin Elmer and WinLab) method and measurement by spectrophotometry BSL 102	A
Urine	Drugs of Abuse screen	Nal Von Minden drug-screen dip test BSL 112	A
Serum/Urine	Osmolality	Vitech MicroOsmometer 3320 suppliers method and measurement by freezing point depression BSL 110	A



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HUMAN BODY FLUIDS AND TISSUE (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)</u>	In house documented procedures based on equipment manuals and standard methods using-	
Urine	hCG	Alere Testpack Plus hCG COMBO using manufacturers' instructions BSL 107	B, C
Whole blood	HbA1C	TOSOH G8 supplier method measurement by HPLC BSL 114	A
	<u>Haematology examination activities for the purpose of clinical diagnosis</u>	Documented In-house methods using: ACL TOPS 500	
Venous Blood: Citrated	Blood Coagulation		
	<ul style="list-style-type: none"> <li>• Prothrombin time               <ul style="list-style-type: none"> <li>○ INR</li> </ul> </li> <li>• Activated Partial Thromboplastin Time</li> <li>• Thrombin Time</li> <li>• Fibrinogen estimation               <ul style="list-style-type: none"> <li>○ Clauss</li> </ul> </li> <li>• DDimers</li> </ul>	Turbidimetric method Clot detection by optical rate of change of absorbance end point being the maximum rate of change SOP BSL 252	A, B, C
	Factors assays (Intrinsic)	BSL 254	A
	<ul style="list-style-type: none"> <li>• VIII</li> <li>• IX</li> <li>• XI</li> <li>• XII</li> </ul>		
	Factors assays (Extrinsic)	BSL 253	A
	<ul style="list-style-type: none"> <li>• II</li> <li>• V</li> <li>• VII</li> <li>• X</li> </ul>		
	Factor Inhibitor Screen Factor Inhibitor Assay	BSL 259 BSL 263	



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HUMAN BODY FLUIDS AND TISSUE (cont'd)	<u>Haematology examination activities for the purpose of clinical diagnosis (cont'd)</u>  Anti-Xa Assay  Von Willebrand Factor <ul style="list-style-type: none"> <li>○ Antigen</li> <li>○ Activity</li> </ul> Thrombophilia screen;- <ul style="list-style-type: none"> <li>• Anti-Thrombin</li> <li>• protein C</li> <li>• protein S</li> </ul> Lupus Screen	Documented In-house methods using: ACL TOPS 500  Chromogenic SOP: BSL 255  Latex method SOP: BSL 256  BSL 257 clot detection Chromogenic Chromogenic 257 latex BSL 258-clot detection	A
	FBC;- <ul style="list-style-type: none"> <li>• Haemoglobin</li> <li>• Red Cell Count</li> <li>• Platelet Count</li> <li>• Mean Cell Volume</li> <li>• HCT</li> <li>• MCH</li> <li>• MCHC</li> <li>• Nucleated Red Cell Count</li> <li>• White Blood Cell Count (total)</li> <li>• Neutrophil Count</li> <li>• Lymphocyte Count</li> <li>• Monocyte Count</li> <li>• Eosinophil Count</li> <li>• Basophil Count</li> <li>• Reticulocyte Count</li> </ul>	Siemens Advia 2120i, supplier methods and measurement by; SOP BSL 201  colorimetry Light scatter  by calculation  flow cytometry  light scatter, and impedance	A, B, C





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HUMAN BODY FLUIDS AND TISSUE (cont'd)	<u>Haematology examination activities for the purpose of clinical diagnosis (cont'd)</u>	Documented In-house methods using:	
Whole Blood	Blood Films: Morphology	Modified Wrights stain and Light microscopy BSL 202(manual preparation), BSL 205 (reporting) BSL 204 Advia 2120i Autoslide	A, B, C A
	Haemoglobinopathy Screening <ul style="list-style-type: none"> <li>• HbA2</li> <li>• HbF</li> <li>• HbA</li> <li>• HbS</li> </ul>	TOSOH G8 supplier method measurement by HPLC BSL 221	A
	Glucose 6-phosphate dehydrogenase	Trinity Biotech enzyme method using spectrophotometry BSL 217	A
	Plasma viscosity	Benson viscometer suppliers' method and measurement by plasma viscosity BSL 209	A
	Infectious Mononucleosis antibody	Rapid Clearview IM II lateral flow immunoassay BSL 015	A, B, C
Serum	Gastric Intrinsic Factor	DS2 using suppliers' methods and measurement by ELISA MSP013	A

END