


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <p><b>UKAS</b> MEDICAL 9845</p> <p>Accredited to ISO 15189:2022</p>	<b>Betsi Cadwaladr University Health Board</b>	
	<b>Issue No: 015 Issue date: 09 September 2025</b>	
<b>Ysbyty Gwynedd</b> <b>Penrhosgarnedd, Bangor</b> <b>Gwynedd</b> <b>LL57 2PW</b>	<b>Contact: Bernadette Astbury</b> <b>Tel: +44 (0) 1978 291 100</b> <b>E-Mail: bernadette.astbury@wales.nhs.uk</b> <b>Website: <a href="http://www.bcu.wales.nhs.uk/">http://www.bcu.wales.nhs.uk/</a></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
<p><b>Address</b>  Wrexham Maelor Hospital  Croesnewydd Road  Wrexham  LL13 7TD  United Kingdom</p> <p><b>Local contact</b>  Paul Jakeways  03000 858093</p>	<p>Haematology  Biochemistry  Blood Transfusion  Andrology  Management of five blood fridges:</p> <ul style="list-style-type: none"> <li>• Laboratory blood fridge</li> <li>• Theatre blood fridge, Erdigg ward annex</li> <li>• Haemosafe remote issue fridge Erdigg ward annex</li> <li>• A &amp; E blood fridge</li> <li>• Office blood fridge in Pathology laboratory</li> </ul>	WMH
<p><b>Address</b>  Ysbyty Gwynedd  Penrhosgarnedd  Bangor  Gwynedd  LL57 2PW</p> <p><b>Local contact</b>  Vicky Williamson-Hughes  03000 842380</p>	<p>Haematology  Biochemistry  Immunology  Blood Transfusion  Management of three lab-based blood fridges</p>	YG
<p><b>Address</b>  Glan Clywd Hospital  Sarn Lane  Bodelwyddan  LL18 5UJ</p> <p><b>Local contact</b>  Joseph Banwell  03000 844834</p>	<p>Haematology  Biochemistry  Blood Transfusion</p> <p>Management of three blood fridges:</p> <ul style="list-style-type: none"> <li>• Cancer Centre Enfys ward</li> <li>• Top Floor corridor, between Delivery suite/Cancer centre</li> <li>• Theatres</li> </ul>	YGC





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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	<u>Haematology examination activities for the purpose of clinical diagnosis</u>	In-house documented procedures based on equipment manuals as relevant	
EDTA Whole Blood	Full Blood Count: Haemoglobin White Blood Cell count Red blood cell count Platelet count Haematocrit Mean Cell Volume Mean Cell Haemoglobin Mean Cell Haemoglobin concentration Neutrophil count Lymphocyte count Monocyte count Eosinophil count Basophil count Reticulocyte count Nucleated Red Cell count	Sysmex XN using flow cytometry, impedance, and spectrophotometry  SOP PTH/HAE/110	WMH YG YGC
Citrated Plasma	Coagulation studies:  Prothrombin time APTT Fibrinogen INR D-Dimer Thrombin time  Factor Assays:  Factor VIII Factor IX Factor Xa Von Willebrand Factor Assay Ristocetin cofactor activity	Sysmex CN using clotting, chromogenic, and agglutination assays  PTH/COA/119	WMH YG YGC



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HUMAN BODY FLUIDS (cont'd)	<u>Haematology examination activities for the purpose of clinical diagnosis (cont'd)</u>	In-house documented procedures based on equipment manuals as relevant	
	Thrombophilia screening:  Antithrombin III Protein C activity Free protein S  Lupus Anticoagulant Screening:	SOP PTH/HAEC/COAG09	YGC
	Factor II Factor V Factor VII Factor X Factor XI Factor XII Chromagenic Factor VIII Factor inhibitors Correction studies: Emicizumab		YG
Whole blood EDTA	Plasma viscosity	Benson viscometer  SOP PTH/HAEE/611	WMH
Bone Marrow aspirates	Detection of normal and abnormal morphologies	Manual Perl's stain SOP PTH/HAE/109	WMH YG



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HUMAN BODY FLUIDS (cont'd)	<u>Haematology examination activities for the purpose of clinical diagnosis (cont'd)</u>	In-house documented procedures based on equipment manuals as relevant	
Bone Marrow aspirate and stained trephine slides	Detection of normal and abnormal morphologies	Examination by light microscopy  SOP PTH/HAE/108 SOP PTH/HAE/109	WMH YG YGC
CSF	Detection of spinal infiltration (residual cells)	Using Cytospin Shandon Cytospin 2 and Sysmex SP1000 automated staining system using May Grunwald – Giemsa  PTH/HAE/113 SOP PTH/HAEW/102	YG
Whole blood	Screening for the detection of Plasmodium spp (Including <i>Plasmodium ovale</i> <i>Plasmodium falciparum</i> , <i>Plasmodium malariae</i> <i>Plasmodium vivax</i> )	CareUS Rapaid Malaria Test Kit rapid malaria test kit  SOP PTH/HAE/151	WMH YG YGC
	Preliminary screening for malaria parasites	Manual thin film staining using Giemsa with Sorensens Buffer – pH 7.2, SOP PTH/HAE/602 SOP PTH/HAE/108  Preparation of thick films to be stained and reported at other sites as below.	WMH
Whole blood	Detection and identification of Plasmodium species: <ul style="list-style-type: none"> <li>• <i>P. falciparum</i></li> <li>• <i>P. vivax</i></li> <li>• <i>P. ovale</i></li> <li>• <i>P. malariae</i></li> <li>• <i>P. knowlesi</i></li> </ul>	Manual thin film staining using Giemsa with Sorensens Buffer – pH 7.2, and thick films with Field's Stain. Reporting of thick and thin films from across the network  PTH/HAE/142	YG YGC



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HUMAN BODY FLUIDS (cont'd)	<u>Haematology examination activities for the purpose of clinical diagnosis (cont'd)</u>	In-house documented procedures based on equipment manuals as relevant	
EDTA Whole blood	Detection of the presence of sickling haemoglobins	SICKLEDEX solubility test kit SOP PTH/HAE/106	WMH YG YGC
Whole blood	Detection of infectious mononucleosis heterophile antibodies	Accusay Mono kit rapid immunoassay SOP PTH/HAE/104	WMH YG YGC
Whole blood	G6PD screen	G6PD Trinity Biotech using red cell enzyme rate reaction SOP PTH/HAEW/116	YG
Whole blood	Haemoglobinopathy screening:  Detection of Haemoglobin variants Hb A Hb A2 Hb F Hb S Hb C Hb D Punjab Hb E	Helena V8 Nexus using capillary electrophoresis PTH/HAEE/630	WMH
Whole blood EDTA	Erythrocyte sedimentation rate (ESR)	Starrsed Auto-Compact analyser (Westergren method) PTH/HAE/143	YG YGC
Plasma, citrated	Platelet Function Testing	Platelet Aggregometry: Helena Biosciences AggRam using Turbidimetry SOP PTH/HAEW/59	YG



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HUMAN BODY FLUIDS (cont'd)	<u>Blood transfusion examination activities for the purpose of clinical diagnosis</u>	In-house documented procedures based on equipment manuals as relevant	
Blood	Blood Grouping by antigen detection <ul style="list-style-type: none"> <li>• A, B and O groups</li> <li>• Rhesus D</li> </ul>	Automated testing using Orthovision, Microcolumns.  SOP PTH/TR/845	WMH YG YGC
	Red cell antibody screens (detection and identification) of the following <ul style="list-style-type: none"> <li>• Rhesus: C, c, D, E, e</li> <li>• Kell</li> <li>• Duffy</li> <li>• Kid</li> <li>• Lewis</li> <li>• P</li> <li>• MNS</li> <li>• Lutheran</li> </ul>	Automated testing using Orthovision, Microcolumns.  SOP PTH/TR/845 SOP PTH/TR/846	WMH YG YGC
Blood	Antigen phenotyping: <ul style="list-style-type: none"> <li>• Rhesus: C, c, D, E, e</li> <li>• Kell</li> </ul>	Automated testing using Orthovision, Microcolumns.  PTH/TR/848	YG YGC WMH
Blood	Compatibility testing of patient's plasma with donor cells	Automated testing using Orthovision, Microcolumns.  SOP PTH/TR/847	WMH YG YGC
Blood	Direct antiglobulin test	Automated testing using Orthovision, Microcolumns.  SOP PTH/TR/849	WMH YG YGC



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HUMAN BODY FLUIDS (cont'd)	<u>Blood transfusion examination activities for the purpose of clinical diagnosis (cont'd)</u>	In-house documented procedures based on equipment manuals as relevant	
Blood	Foetal/maternal haemorrhage screen (Kleihauer)	Guest Medical, Fetal red cell detection kit  PTH/TR/860	WMH YGC YG
Blood	<u>Molecular examination activities for the purpose of clinical diagnosis</u>  Detection and identification of the following genetic mutations: <ul style="list-style-type: none"> <li>• Factor V Leiden</li> <li>• Prothrombin gene P20210</li> <li>• HFE (Haemochromatosis)</li> <li>• HLAB27</li> </ul>	In-house documented procedures based on equipment manuals as relevant  Fluorotype Assay using HAIN thermocycler.  SOP PTH/HAEC/COAG11	YGC



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)</u>	In-house documented procedures based on equipment manuals as relevant	
Serum	Alpha 1 Antitrypsin	Cobas 8000, ISE, e801, and c702 – Automated Biochemistry by Immunoturbidimetric, Enzymatic, Colorimetric, Immunoassay, KIMS, and Ion-selective electrode methodologies PTH/BIO/356 Immunoturbidimetric	YGC
Serum	Angiotensin Converting Enzyme	Buhlmann ACE Kinetic enzymatic assay	YGC
Serum	Albumin BCP	Colorimetric	YG YGC WMH
Serum	Alkaline Phosphatase	Colorimetric	YG YGC WMH
Serum	Alanine Aminotransferase	UV absorbance	YG YGC WMH
Serum	Amylase	Enzymatic colorimetric	YG YGC WMH
Serum	Aspartate Aminotransferase	UV absorbance	YG YGC WMH
Plasma	Ammonia	Enzymatic	YG YGC WMH
Serum	Total Bilirubin	Colorimetric Diazo	YG YGC WMH



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)</u>	In-house documented procedures based on equipment manuals as relevant	
Serum	Bicarbonate	Cobas 8000, ISE, e801, and c702 – Automated Biochemistry by Immunoturbidimetric, Enzymatic, Colorimetric, Immunoassay, KIMS, and Ion-selective electrode methodologies PTH/BIO/356 Absorbance	YG YGC WMH
Serum	Bile Acid	Enzymatic	YGC
Serum	Complement C3	Immunoturbidimetric	YG
Serum	Complement C4	Immunoturbidimetric	YG
Serum	Ceruloplasmin	Immunoturbidimetric	YGC
Serum	Cholesterol	Enzymatic, colorimetric	YG YGC WMH
Serum	Creatine Kinase	UV	YG YGC WMH
Serum, Urine	Creatinine	Kinetic colorimetric based on the Jaffe Method	YG YGC WMH
Serum	C- Reactive Protein	Particle-enhanced immunoturbidimetric	YG YGC WMH
Urine, CSF	CSF Protein	Turbidimetric	YG YGC WMH
Serum, Urine	Calcium	Photometrical	YG YGC WMH



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)</u>	In-house documented procedures based on equipment manuals as relevant	
Serum	Carbamazepine	Cobas 8000, ISE, e801, and c702 – Automated Biochemistry by Immunoturbidimetric, Enzymatic, Colorimetric, Immunoassay, KIMS, and Ion-selective electrode methodologies PTH/BIO/356	YG YGC WMH
Serum	Chloride	Ion-selective electrodes	YGC WMH YG
Serum	Direct Bilirubin	Colorimetric Diazo	YG YGC WMH
Serum	Ethanol	Enzymatic method with alcohol dehydrogenase.	YG YGC WMH
Serum	Gamma Glutamyl Transferase	Enzymatic colorimetric	YG YGC WMH
Plasma, CSF	Glucose	Enzymatic UV, Hexokinase	YG YGC WMH
Serum	Gentamicin	KIMS	YG YGC WMH
Serum	High Density Lipoprotein	Homogeneous enzymatic colorimetric	YG YGC WMH



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)</u>	In-house documented procedures based on equipment manuals as relevant  Cobas 8000, ISE, e801, and c702 – Automated Biochemistry by Immunoturbidimetric, Enzymatic, Colorimetric, Immunoassay, KIMS, and Ion-selective electrode methodologies PTH/BIO/356	
Serum	Immunoglobulin A	Immunoturbidimetric	YG YGC WMH
Serum	Immunoglobulin G	Immunoturbidimetric	YG YGC WMH
Serum	Immunoglobulin M	Immunoturbidimetric	YG YGC WMH
Serum	Iron	Colorimetric	YG YGC WMH
Serum, Urine	Potassium	Ion-selective electrodes	YG YGC WMH
Plasma	Lactate	Colorimetric	YG YGC
Serum	Lactate Dehydrogenase	UV	YG YGC WMH
Serum	Lithium	Colorimetric test	YG YGC WMH
Serum	Magnesium	Colorimetric endpoint	YG YGC WMH



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)</u>	In-house documented procedures based on equipment manuals as relevant	
Serum	Paracetamol	Cobas 8000, ISE, e801, and c702 – Automated Biochemistry by Immunoturbidimetric, Enzymatic, Colorimetric, Immunoassay, KIMS, and Ion-selective electrode methodologies PTH/BIO/356 Enzymatic – Acylamidase	YG YGC WMH
Serum, Urine	Phosphate	Molybdate UV	YG YGC WMH
Serum	Phenobarbitone	KIMS	YG
Serum	Phenytoin	KIMS	YG YGC WMH
Serum	Rheumatoid Factor	Immunoturbidimetric	YG
Serum	Salicylate	UV absorbance	YG YGC WMH
Serum, Urine	Sodium	Ion-selective electrodes	YG YGC WMH
Serum	Total Protein	Colorimetric	YG YGC WMH
Serum	Triglycerides	Enzymatic colorimetric	YG YGC WMH



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)</u>	In-house documented procedures based on equipment manuals as relevant  Cobas 8000, ISE, e801, and c702 – Automated Biochemistry by Immunoturbidimetric, Enzymatic, Colorimetric, Immunoassay, KIMS, and Ion-selective electrode methodologies PTH/BIO/356	
Serum	Transferrin	Immunoturbidimetric	YG YGC WMH
Serum	Tobramycin	Homogeneous enzyme immunoassay	WMH
Serum	Theophylline	KIMS	YG YGC WMH
Serum, Urine	Urea	Kinetic test with urease and glutamate dehydrogenase	YG YGC WMH
Serum, Urine	Uric Acid	Enzymatic, colorimetric	YG YGC WMH
Urine	Albumin	Immunoturbidimetric	YG YGC WMH
Urine	Chloride	Ion-selective electrodes	YGC WMH
Urine	Magnesium	Colorimetric endpoint method	YGC WMH
Serum	Vancomycin	Homogeneous enzyme immunoassay	YG YGC WMH
Serum	Haptoglobin	Immunoturbidimetric	WMH



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)</u>	In-house documented procedures based on equipment manuals as relevant	
Serum	Serum Indices	Cobas 8000, ISE, e801, and c702 – Automated Biochemistry by Immunoturbidimetric, Enzymatic, Colorimetric, Immunoassay, KIMS, and Ion-selective electrode methodologies PTH/BIO/356  Colorimetric	YG YGC WMH
Serum	Valporate	Homogeneous enzyme immunoassay	WMH
Urine	Amphetamines	KIMS	YG
Urine	Benzodiazepine	KIMS	YG
Urine	Cocaine Metabolite	KIMS	YG
Urine	Methadone metabolite EDDP	Enzyme immunoassay	YG
Urine	Opiates	KIMS	YG
Urine	Cannabinoid (THC)	KIMS	YG
Plasma	Adrenocorticotrophic Hormone	ECL Sandwich	YGC
Serum	Thyroid Peroxidase	ECL Competition	WMH
Serum	Alpha Feto Protein	ECL Sandwich	YGC
Serum	Beta Human Chorionic Gonadotrophin	ECL Sandwich	YG YGC WMH
Serum	Vitamin B12	ECL Competition	YG YGC WMH



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)</u>	In-house documented procedures based on equipment manuals as relevant	
Serum	Carbohydrate Antigen 12-5	Cobas 8000, ISE, e801, and c702 – Automated Biochemistry by Immunoturbidimetric, Enzymatic, Colorimetric, Immunoassay, KIMS, and Ion-selective electrode methodologies PTH/BIO/356 ECL Sandwich	YG YGC WMH
Serum	Carbohydrate Antigen 15-3	ECL Sandwich	YGC
Serum	Carbohydrate Antigen 19-9	ECL Sandwich	YGC
Serum	Carcino Embryonic Antigen	ECL Sandwich	YG YGC WMH
Serum	Cortisol	ECL Competition	YG YGC WMH
Serum	Digoxin	ECL Competition	YG YGC WMH
Serum	Estradiol	ECL Competition	YG YGC WMH
Serum	Follicle Stimulating Hormone	ECL Sandwich	YG YGC WMH
Serum	Free T4	ECL Competition	YG YGC WMH



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)</u>	In-house documented procedures based on equipment manuals as relevant	
Serum	Free T3	Cobas 8000, ISE, e801, and c702 – Automated Biochemistry by Immunoturbidimetric, Enzymatic, Colorimetric, Immunoassay, KIMS, and Ion-selective electrode methodologies PTH/BIO/356 ECL Competition	YG YGC WMH
Serum	Ferritin	ECL Sandwich	YG YGC WMH
Serum	Folate	ECL Competition	YG YGC WMH
Serum	Leutinising Hormone	ECL Sandwich	YG, YGC WMH
Serum	Prolactin	ECL Sandwich	YG YGC WMH
Serum	Progesterone	ECL Competition	YG YGC WMH
Serum	Prostate Specific Antigen	ECL Sandwich	YG YGC WMH
Serum	Procalcitonin	ECL Sandwich	YGC
Serum	N-Terminal Pro B-type Natriuretic peptide	ECL Sandwich	YG YGC WMH



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)</u>	In-house documented procedures based on equipment manuals as relevant	
Serum	Sex Hormone Binding Globulin	Cobas 8000, ISE, e801, and c702 – Automated Biochemistry by Immunoturbidimetric, Enzymatic, Colorimetric, Immunoassay, KIMS, and Ion-selective electrode methodologies PTH/BIO/356 ECL Sandwich	YG YGC WMH
Serum	Testosterone	ECL Competition	YG YGC WMH
Serum	Troponin-T	ECL Sandwich	YG YGC WMH
Serum	Thyroid Stimulating Hormone	ECL Sandwich	YG YGC WMH
Serum	Macroprolactin	ECL Sandwich with PEG precipitation step	YG YGC WMH
Serum	Vitamin D	ECL Competition	WMH
Serum	Neuron Specific Enolase	ECL Sandwich	YGC
Serum	By Calculation: Adjusted Calcium	Calculation	YG YGC WMH
Serum	eGFR	Calculation	YG YGC WMH



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Serum	By Calculation: Calculated globulin function	Cobas 8000, ISE, e801, and c702 – Automated Biochemistry by Immunoturbidimetric, Enzymatic, Colorimetric, Immunoassay, KIMS, and Ion-selective electrode methodologies PTH/BIO/356  Calculation	YG YGC WMH
Serum	Cholesterol HDL cholesterol ratio	Calculation	YG YGC WMH
Serum	Non-HDL cholesterol	Calculation	YG YGC WMH
Serum	LDL cholesterol	Calculation	YG YGC WMH
Serum	Transferrin Saturation	Calculation	YG YGC WMH
Urine	24-hour urine output	Calculation	YG YGC WMH
Serum	Protein creatinine ratio	Calculation	YG YGC WMH
Serum	Albumin creatinine ratio	Calculation	YG YGC WMH



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issued by  
**United Kingdom Accreditation Service**  
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

**Betsi Cadwaladr University Health Board**  
Issue No: 015 Issue date: 09 September 2025

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)</u>	In-house documented procedures based on equipment manuals as relevant	
Serum	By Calculation: Calcium creatinine ratio	Cobas 8000, ISE, e801, and c702 – Automated Biochemistry by Immunoturbidimetric, Enzymatic, Colorimetric, Immunoassay, KIMS, and Ion-selective electrode methodologies PTH/BIO/356	YG YGC WMH
Serum	Phosphate creatinine ratio	Calculation	YG YGC WMH
Serum	Urate creatinine ratio	Calculation	YG YGC WMH
Serum	Monoclonal protein screening and quantitation	Helena V8 Nexus (CZE) SOP PTH/BIO/206	WMH YG YGC
Urine	Monoclonal protein screening	Helena SA 3&4 (Gel Zonal Electrophoresis) SOP PTH/BIO/207	WMH YG YGC
Serum, Urine	Monoclonal Protein Immunotyping for: Heavy Chains A,G,M,D,E Light Chains kappa, lambda	Helena SA 3&4 (Immunofixation) SOP PTH/BIO/226	WMH YG YGC
Blood	Glycated Haemoglobin (HbA1c)	Tosoh G11 SOP PTH/BIO/187	WMH YG YGC
Blood	Glycated Haemoglobin (HbA1c)	Tosoh GX SOP PTH/BIO/187	RDU



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)</u>	In-house documented procedures based on equipment manuals as relevant	
CSF	Xanthochromia	Jasco V-730 spectrophotometer  SOP PTH/BIO/148	WMH YGC YG
Serum, urine	Osmolality	Freezing point depression osmometry using Advanced instruments OSMO1 Osmometer  SOP PTH/BIO/210	WMH YGC YG
Renal calculi	Determination of the composition of renal calculi	JASCO FT/IR 4100 spectrometer  Spectra Manager Software, including Spectra measurement and Spectra Analysis programmes  SOP PTH/BIOE/40	WMH
Urine	Screening for carcinoid syndrome and pheochromocytoma:	High Performance Liquid Chromatography using Waters 2695 HPLC Analyser  SOP PTH/BIOW/125 SOP PTH/BIOW/126 SOP PTH/BIOW/127	YG
	5HIAA VMA Metadrenalines Normetadrenalines		
Serum	Cryoglobulin screening and detection	Visual detection  PTH/BIO/223	YG WMH YGC
Sweat	<u>Sweat Collection for Cystic Fibrosis Chloride Concentration Analysis</u>	Macroduct Advanced Sweat Collection System	YG
Sweat	<u>Chloride Concentration</u>	Chlorocheck Sweat Chloride Meter	YGC WHM



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HUMAN BODY FLUIDS (cont'd)  Semen	<u>Andrology examinations for aid of Clinical diagnosis</u>  <u>Fertility Testing:</u>  Semen pH  Semen volume  Sperm concentration  Detection of sperm  Sperm motility  Sperm vitality  Sperm morphology including TZI scoring	Based on WHO laboratory manual for the examination and processing of human semen (Sixth edition 2021) and manual method and documented in-house procedure SOP PTH/AND/001  Colorimetric strips  Volume/weight  Manual microscopy using Improved Neubauer counting chamber and phase contrast microscopy  Manual method using documented in-house procedure, by large volume chambers manual Microscopy  Microscopy (Phase contrast)  Stained slide (Eosin/Nigrosin dye exclusion test) microscopy (Bright field)  Stained slides (Papanicolau) and microscopy (Bright field)	WMH
END			