


Schedule of Accreditation

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United Kingdom Accreditation Service

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

 <p>9085</p> <p>Accredited to ISO 15189:2012</p>	St George's University Hospitals NHS Foundation Trust	
	Issue No: 005 Issue date: 22 October 2021	
	South West London Pathology Clinical Blood Sciences St George's Hospital Blackshaw Road Tooting London SW17 0QT	Contact: Mr Jamie Laughlin Tel: 0208 725 5920 E-Mail: Jamie.Laughlin@stgeorges.nhs.uk Website: www.swlp.nhs.uk
Testing performed by the Organisation at the locations specified below		

Locations covered by the organisation and their relevant activities

Location details	Activity	Location code
<p>Address Clinical Blood Sciences Laboratory South West London Pathology St George's Hospital Blackshaw Road Tooting London SW17 0QT</p> <p>Local contact Network Manager: Jamie Laughlin Hub Manager: Judith Harper</p>	Routine Haematology Diagnostic Haematology Routine & Specialist Coagulation Haemoglobinopathy screening Phenotyping laboratory Blood Transfusion Routine Chemistry Manual Chemistry Mass Spectroscopy Management of blood fridges	SGH
<p>Address Croydon University Hospital (CUH) Clinical Blood Sciences Department 530 London Road Thornton Heath CR7 7YE</p> <p>Local contact Fred Mpambire Spoke Manager</p>	Biochemistry, manual and automated Haematology Coagulation Blood Transfusion Management of blood fridges	CUH
<p>Address Kingston Hospital (KHFT) Clinical Blood Sciences Kingston Hospital Galsworthy Road Kingston upon Thames KT2 7QB</p> <p>Local contact David McIntyre Spoke Manager</p>	Biochemistry, manual and automated Haematology Coagulation Blood Transfusion Management of blood fridges	KHFT
<p>Address Essential Services Laboratory Royal National Orthopaedic Hospital Brockley Hill Stanmore HA7 4LP</p> <p>Local contact Juliette Gevao Spoke Manager</p>	Biochemistry, manual and automated Haematology Coagulation Blood Transfusion Management of blood fridges	RNOH



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Site activities performed away from the locations listed above:

Location details	Activity	Location code
St George's Hospital Hot Lab Emergency Department	Basic Biochemistry Basic Haematology	ED
St James' Theatre, St George's Hospital Tooting SW17 0QT	Blood issue fridge No testing occurs on this site, blood storage only	SGH
Neurology Theatre, St George's Hospital Tooting SW17 0QT	Blood issue fridge No testing occurs on this site, blood storage only	SGH
Cardiac Theatre, St George's Hospital Tooting SW17 0QT	Blood issue fridge No testing occurs on this site, blood storage only	SGH
Emergency Department, St George's Hospital Tooting SW17 0QT	Blood issue fridge No testing occurs on this site, blood storage only	SGH
Haematology Day Care Unit, St George's Hospital Tooting SW17 0QT	Blood Bank & Platelet Incubator No testing occurs on this site, blood storage only	SGH
Lanesborough Theatre, St George's Hospital Tooting SW17 0QT	Blood issue fridge No testing occurs on this site, blood storage only	SGH
Theatres Kingston Hospital Kingston Surrey KT2 7QB	Blood issue fridge No testing occurs on this site, blood storage only	KHFT



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Location details	Activity	Location code
Life Blood Suite, CUH Croydon University Hospital Thornton Heath CR7 7YE	Blood issue fridge No testing occurs on this site, blood storage only	CUH
Theatres, RNOH Royal National Orthopaedic Hospital Stanmore HA7 4LP	Blood issue fridge No testing occurs on this site, blood storage only	RNOH



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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 standard methods and incorporating manufacturers' instructions as relevant:	
Whole blood EDTA	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 Nucleated Red Cell count	Beckman Coulter UniCel DxH 900 flow cytometry, impedance and spectrophotometry CBS-HA-PR-11	SGH CUH KHFT ED
Whole blood EDTA	Reticulocyte count	Beckman Coulter UniCel DxH 900 CBS-HA-PR-11	SGH CUH KHFT
Whole blood EDTA	Full Blood Count	Beckman Coulter UniCel DxH 800 flow cytometry, impedance and spectrophotometry CBS-HA-PR-29	RNOH



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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 standard methods and incorporating manufacturers' instructions as relevant:	
Whole blood Citrate		Werfen ACL TOPS 750 CBS-HA-CO-PR-2 CBS-HA-CO-PR-9 CBS-HA-CO-PR-10 CBS-HA-CO-PR-13 CBS-HA-CO-PR-16 CBS-HA-CO-PR-19 CBA-HA-CO-PR-6 CBS-HA-CO-PR-7 CBS-HA-CO-PR-14 CBS-HA-CO-PR-15 CBS-HA-CO-PR-20 CBS-HA-CO-PR-21 CBS-HA-CO-PR-22 CBS-HA-CO-PR-23	SGH
	ANTI-XA (SUBCUT HEPARIN)	Chromogenic assay	SGH
	Activated Protein C Resistance	Clotting	SGH
	APTT FOR HEPARIN CONTROL	Clotting	SGH
	APTT RATIO	Clotting	SGH
	Factor VIII Inhibitor	Clotting	SGH
	CORRECTED APTT 50:50 mix	Clotting	SGH
	CORRECTED PT 50:50 mix	Clotting	SGH
	D-DIMER	Immunoassay	SGH
	DRVVT for Lupus anticoagulant	Clotting	SGH
	DRVVT MIXED 50:50 WITH NP	Clotting	SGH
	FACTOR II ACTIVITY	Clotting	SGH
	FACTOR IX ACTIVITY	Clotting	SGH
	FACTOR V ACTIVITY	Clotting	SGH
	FACTOR VII ACTIVITY	Clotting	SGH
	Factor VIII	Chromogenic assay	SGH
	FACTOR VIII CLOTTING ACTIVITY	Clotting	SGH
	FACTOR X ACTIVITY	Clotting	SGH
	FACTOR XI	Clotting	SGH
	ANTITHROMBIN ASSAY	Clotting	SGH
	FACTOR XII	Clotting	SGH
	FACTOR XIII Ag ASSAY	Clotting	SGH
	FIBRINOGEN	Clotting	SGH
	Free Protein S (Latex)	Immunoassay	SGH
	INR (Prothrombin Time)	Clotting	SGH



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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 standard methods and incorporating manufacturers' instructions as relevant:	
	INR FOR WARFARIN CONTROL	Clotting	SGH
	Inhibitor screen	Clotting	SGH
	PLT.CORR.TEST FOR DRVVT	Clotting	SGH
	PROTEIN C (Chr) Assay	Chromogenic assay	SGH
	Prothrombin time (Secs)	Clotting	SGH
	Silica Clot Time Screen	Clotting	SGH
	Silica Clot Time Confirm	Clotting	SGH
	THROMBIN TIME	Clotting	SGH
Whole blood Citrate	Detection of:	Werfen ACL TOPS 750	SGH
	VWF ACTIVITY	IL VWF Activity kit	
	VWF ANTIGEN	IL VWF Antigen kit	
		Immunoassay	
Whole blood Citrate		Werfen ACL TOPS 550	
		CBC-HA-CO-CR/KH-PR2CBS-HA-CO-CR/KH-PR4	
		CBS-HA-CO-CR/KH-PR3	
	APTT FOR HEPARIN CONTROL	Clotting	CUH
	APTT RATIO	Clotting	CUH
	CORRECTED APTT 50:50 mix	Clotting	CUH
	CORRECTED PT 50:50 mix	Clotting	CUH
	D-DIMER	Immunoassay	CUH
	FIBRINOGEN	Clotting	CUH
	INR (Prothrombin Time)	Clotting	CUH
	INR FOR WARFARIN CONTROL	Clotting	CUH
	Prothrombin time (Secs)	Clotting	CUH
	THROMBIN TIME	Clotting	CUH
Whole blood Citrate		Werfen ACL TOPS 550	
		CBC-HA-CO-CR/KH-PR2	
		CBS-HA-CO-CR/KH-PR4	
		CBS-HA-CO-CR/KH-PR3	
	ANTI-XA (SUBCUT HEPARIN)	Chromogenic assay	KHFT
	APTT FOR HEPARIN CONTROL	Clotting	KHFT
	APTT RATIO	Clotting	KHFT
	CORRECTED APTT 50:50 mix	Clotting	KHFT
	CORRECTED PT 50:50 mix	Clotting	KHFT



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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 standard methods and incorporating manufacturers' instructions as relevant:	
	D-DIMER	Immunoassay	KHFT
	FIBRINOGEN	Clotting	KHFT
	INR (Prothrombin Time)	Clotting	KHFT
	INR FOR WARFARIN CONTROL	Clotting	KHFT
	Prothrombin time (Secs)	Clotting	KHFT
	THROMBIN TIME	Clotting	KHFT
Whole blood Citrate	INR Prothrombin time (Secs) APTT APTT ratio Fibrinogen D-Dimer Thrombin time	Werfen ACL TOPS 500 and 300 CBS-HA-CO-PR-57 Clotting	RNOH
Whole blood Citrate	INR D-Dimer	Werfen ACL TOPS 350 CBS-HA-CO-PR-46 Immunoassay	ED
Blood	Erythrocyte Sedimentation Rate (ESR)	Alifax analyser – photometrical capillary stopped flow kinetic analysis CBS-HA-PR-38 CBS-HA-PR-14 CBS-HA-PR-45	KHFT SGH CUH
Whole blood EDTA	Screening for Haemoglobinopathies: Quantitation of HbA2 Quantitation of HbF Quantitation of HbS Identification/Quantitation of other Variant Hb	Biorad Variant II (HPLC) and Sebia Capillary2 (capillary electrophoresis) CBS-HE-PR-10 CBS-HE-PR-5	SGH
Whole Blood EDTA	WBC differential	Manual examination light microscopy CBS-HA-PR-27	SGH CUH KHFT
Whole blood EDTA	Detection of normal and abnormal morphologies	Blood film examination by staining using May Grunwald – Giemsa method and microscopy	SGH CUH KHFT



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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 standard methods and incorporating manufacturers' instructions as relevant:	
Bone Marrow aspirate and stained trephine slides	Detection of normal and abnormal morphologies	Staining using May Grunwald – Giemsa Examination by light microscopy Hematek CBS-HA-PR-25 DXH slide-maker stainer CBS-HA-PR-23 CBS-HA-PR-41 CBS-HA-PR-33	SGH CUH KHFT
Bone Marrow aspirate and stained trephine slides	Detection of normal and abnormal morphologies	Haemosiderin/ iron stain Merck Hematognost kit CBS-HA-PR-17	SGH CUH KHFT
CSF	Presence and identification of cells	Cytocentrifugation and microscopy CBS-HA-CE-PR-7	SGH
Whole Blood EDTA	Detection and Identification of Plasmodium species: <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> 	Manual Staining by May Grunwald – Giemsa and microscopy CBS-HA-PR-4 Film Examination Thin film SOP CBS-HA-PR-47 Thick Film SOP CBS-HA-PR-64	SGH CUH KHFT
Whole blood EDTA	Malarial parasite screen	Humasis RDT method SOP CBS-HE-PR-3	SGH KHFT CUH
Whole blood EDTA	Sickle cell screen	Microgen S test kit CBS-HE-PR-12	SGH CUH KHFT RNOH
Whole blood EDTA	Detection of infectious mononucleosis heterophile antibodies (Glandular fever)	Accusay Mono kit immunoassay CBS-HA-PR-40 CBS-HA-PR-36	CUH KHFT



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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 standard methods and incorporating manufacturers' instructions as relevant:	
Whole blood EDTA	Detection of infectious mononucleosis heterophile antibodies (Glandular fever)	Glandular fever screen (IM) – Clearview assay CBS-HA-PR-28	SGH
Whole blood EDTA	Glucose-6-Phosphate Dehydrogenase Screen (G6PD)	Trinity Biotech Kit 203-A Semi-quantitative fluorescent blood spot test CBS-HE-PR-20 CBS-HA-PR-77 CBS-HE-PR-31	SGH CUH
Whole blood EDTA	Glucose-6-Phosphate Dehydrogenase enzyme (G6PD)	Pointe G7583 assay Spectrophotometry CBS-HE-PR-20	SGH
Blood	Factor V Leiden Prothrombin G20210A mutation	GeneXpert CBS-HA-CO-PR-17	SGH
Blood	F8 Inhibitor	ELISA test. Kit details: FVIII antibody screen ELISA kit, Quest Biomedical Ltd CBS-HE-PR-47	SGH
Blood Bone marrow	<u>Flow Cytometry examination activities for the purpose of clinical diagnosis</u> TRUCP/Immune monitoring CD3 cells count (ABS) (cells/μL) CD4 cells count (cells/μL) CD4 count (ABS) (cells/μL) CD8 cells count (cells/μL) CD8 cells (ABS) (cells/μL) % CD4 cells count (cells/μL) CD45 low SS (cells/μL)	In house documented procedures based on standard methods and incorporating manufacturers' instructions as relevant: Flow cytometry using Beckman Acquios CBS-HA-CE-PR-6	SGH



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HUMAN BODY FLUIDS (cont'd)	<u>Flow Cytometry examination activities for the purpose of clinical diagnosis (cont'd)</u>	In house documented procedures based on standard methods and incorporating manufacturers' instructions as relevant:	
Blood		Flow cytometry using Beckman Navios	SGH
Bone marrow	PNH screening	CBS-HA-CE-PR-22	SGH
	Immune monitoring	CBS-HA-CE-PR 21	SGH
	TB subsets	CBS-HA-CE-PR 21	SGH
	LPD Screening	CBS-HA-CE-PR 20	SGH
	CD34	CBS-HA-CE-PR-19	SGH



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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 (cont'd)	<u>Transfusion examination for the purpose of clinical diagnosis</u>	In house documented methods incorporating manufacturer's instructions where relevant	
EDTA whole blood	Blood Grouping by antigen detection: <ul style="list-style-type: none"> A B and O groups Rhesus groups 	BioRad IH-1000, BioRad gel column technique and ID-Gelstation CBS-BL-PR-12 CBS-BL-PR-19 CBS-BL-PR-8	SGH CUH
EDTA whole blood	Blood Grouping by antigen detection: <ul style="list-style-type: none"> A B and O groups Rhesus groups 	BioRad IH-500, BioRad gel column technique (screen) and ID-Gelstation	RNOH
EDTA whole blood	Blood Grouping by antigen detection: <ul style="list-style-type: none"> A B and O groups Rhesus groups 	Manual blood grouping, BioRad gel column technique CBS-BL-PR-8 CBS-BL-PR-9 CBS-RO-PR7	SGH CUH KHFT
EDTA whole blood	Detection of the following Antibodies:	BioRad IH-1000, BioRad gel column technique (screen) and ID-Gelstation	SGH CUH
	Rhesus blood group antibodies: anti-Cw, anti-C, anti-c, anti-D, anti-E, anti-e	Manual antibody screening, BioRad gel column technique (Antibody identification panels) SOP CBS-BL-PR-112	SGH CUH
	Kell system blood group antibodies: anti-K, anti-k, anti-Kpa	BioRad IH-500, BioRad gel column technique (screen) and ID-Gelstation	RNOH
	Kidd blood group antibodies: anti-Jka, anti-Jkb		
	Duffy blood group antibodies: anti-Fya, anti-Fyb		
	Lutheran blood group antibodies: anti-Lua		
	MNS blood group antibodies: anti-M, anti-N, anti-S, anti-s		
	Lewis blood group antibodies: anti-Lea, anti-Leb		
	P blood group antibodies: anti-P1		



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HUMAN BODY FLUIDS (cont'd)	<u>Transfusion examination for the purpose of clinical diagnosis</u>	In house documented methods incorporating manufacturer's instructions where relevant	
EDTA whole blood	IAT cross match	BioRad IH-1000, BioRad gel column technique CBS-BL-PR-12 CBS-BL-PR-19 CBS-BL-PR-8	SGH KHFT
EDTA whole blood	Cross-match – immediate spin	Manual cross matching, CBS-BL-PR-9	SGH
EDTA whole blood	IAT cross match	Manual crossmatching, BioRad gel column technique CBS-BL-PR-9	SGH KHFT CUH RNOH
EDTA whole blood	Direct Antiglobulin test (DAT)	ID-Gelstation , BioRad gel column technique CBS-BLK-PR-25, 12,16 Manual Direct antiglobulin test, BioRad gel column technique	SGH CUH SGH KHFT CUH RNOH
EDTA whole blood	Neonatal blood group +DAT <ul style="list-style-type: none"> • A B and O groups • RhD groups 	BioRad IH-1000, BioRad gel column technique CBS-BL-PR 107, Manual newborn groups, BioRad gel column technique	SGH KHFT CUH
EDTA whole blood	Red cell phenotyping for Antigens of the following systems: <ul style="list-style-type: none"> • Rh – C,D,E,c,e • Kell – K, • Duffy – Fya, Fyb • Kidd – Jka, • Ss - S, s 	BioRad IH-1000, BioRad gel column technique and ID-Gelstation Manual BioRad gel column technique (pre prepared cassette) Manual BioRad gel column technique (using cells & antisera)	SGH CUH SGH CUH KHFT
EDTA whole blood	Foetal/maternal haemorrhage screen	Acid Elution Technique using Clintech Kit (Kleihauer) CBS-HA-PR-8, CBS-BLK-PR-19	CUH KHFT SGH



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis</u>	In house documented procedures based on standard methods and incorporating Roche Cobas 8000 and c702 manufacturers' instructions as relevant:	
Whole blood	Calculated tests % Iron Saturation Acute Kidney Injury (AKI) Adjusted Calcium Cholesterol LDL eGFR Non-HDL cholesterol Phosphate/Creat Ratio Total Cholesterol/HDL Ratio Transferrin Binding Capacity	By calculation By calculation By calculation By calculation By calculation By calculation By calculation By calculation By calculation By calculation	SGH SGH SGH SGH SGH SGH SGH SGH SGH SGH
Urine	Protein/Creatinine Ratio Albumin/Creatinine Ratio Calcium/Creatinine Ratio Urate/Creat Ratio	By calculation By calculation By calculation	SGH SGH SGH
Whole blood	Calculated tests Acute Kidney Injury (AKI) Adjusted Calcium eGFR	By calculation By calculation By calculation By calculation	CUH CUH CUH CUH
Urine	Urate/Creat Ratio	By calculation	CUH
Whole Blood	Alanine Transaminase Albumin Alcohol (Ethanol) Alkaline Phosphatase Amikacin Ammonia Amylase Angiotensin Converting Enzyme Apolipoprotein A1 Apolipoprotein B Aspartate Transaminase Bicarbonate Bilirubin Conjugated Bilirubin Total	C702 Roche assay Colorimetric method	SGH SGH SGH SGH SGH SGH SGH SGH SGH SGH SGH SGH SGH SGH



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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 standard methods and incorporating Roche Cobas 8000 and c702 manufacturers' instructions as relevant:	
Whole Blood (cont'd)	Alcohol (Ethanol)	Colorimetric method	SGH
	Alkaline Phosphatase		SGH
	Amikacin		SGH
	Ammonia		SGH
	Amphetamine		SGH
	Amylase		SGH
	Angiotensin Converting Enzyme		SGH
	Apolipoprotein A1		SGH
	Apolipoprotein B		SGH
	Aspartate Transaminase		SGH
	Benzodiazapine		SGH
	Bicarbonate		SGH
	Bilirubin Conjugated		SGH
	Bilirubin Total		SGH
	C Reactive Protein		SGH
	Caeruloplasmin		SGH
	Calcium		SGH
	Carbamazepine		SGH
	Cholesterol		SGH
	Cholesterol HDL		SGH
	Creatine Kinase		SGH
	Creatinine (Enzymatic method)		SGH
	Creatinine (Jaffe)		SGH
	CSF Protein		SGH
	Fructosamine		SGH
	Gamma GT		SGH
	Gentamicin		SGH
	Glucose		SGH
	High Sensitivity C Reactive Protein		SGH
	Homocysteine(Serum)		SGH
Plasma	Iron		SGH
	IGF-1		SGH
	Lactate		SGH
	LDH		SGH
	Lipase		SGH



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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 standard methods and incorporating Roche Cobas 8000 and c702 manufacturers' instructions as relevant:	
	Lipoprotein (a)		SGH
	Lithium		SGH
	Magnesium		SGH
	Paracetamol		SGH
	Phenobarbitone		SGH
	Phenytoin		SGH
	Phosphate		SGH
	Protein		SGH
	Salicylate		SGH
	Theophylline		SGH
	Total Protein		SGH
	Transferrin		SGH
	Triglyceride		SGH
	Urea		SGH
	Uric Acid		SGH
	Valproic Acid		SGH
Urine	Amphetamine		SGH
Urine	Benzodiazapine		SGH
Urine	Cannabis		SGH
Urine	Cocaine		SGH
Urine	Lactate		SGH
Urine	LDH		SGH
Urine	Methadone		SGH
Urine	Microalbumin		SGH
Urine	Opiate Screen		SGH
Urine	Urea		SGH
Urine	Uric Acid		SGH
Blood, CSF, urine,	Alanine Transaminase	Roche Cobas 8000 and c702 Colorimetric method	CUH
	Albumin		CUH
	Amikacin		CUH
	Microalbumin		CUH
	Alkaline Phosphatase		CUH
	Ammonia		CUH
	Bicarbonate		CUH
	Bilirubin (Total)		CUH
	Bilirubin Conjugated		CUH
	Calcium		CUH
	Cholesterol		CUH



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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 standard methods and incorporating Roche Cobas 8000 and c702 manufacturers' instructions as relevant:	
	Cholesterol HDL		CUH
	C Reactive Protein		CUH
	Creatine Kinase		CUH
	Creatinine (Jaffe)		CUH
	Creatinine (Enzymatic method)		CUH
	Gamma GT		CUH
	Gentamicin		CUH
	Glucose		CUH
	Lactate		CUH
	LDH		CUH
	Lipase		CUH
	Lithium		CUH
	Magnesium		CUH
	Paracetamol		CUH
	Phosphate		CUH
	Protein		CUH
	Salicylate		CUH
	Theophylline		CUH
	Total protein		CUH
	Triglyceride		CUH
	Urea		CUH
	Uric acid		CUH
	Vancomycin		CUH
	25-Hydroxy Vitamin D		CUH
Whole Blood	Teicoplanin	Roche Cobas 8000 Thermo Fisher CBS-BI-AU-PR-64	SGH
Whole Blood	Angiotensin Converting Enzyme	Buhlmann ACE Kinetic kit CBS-BI-AU-PR-14	SGH
Whole blood	Bile acids (total)	Dialab Bile Acids kit CBS-BI-AU-PR-35	SGH
Blood, urine	Chloride	Roche assay ISE	SGH CUH
Blood, urine	Potassium	Roche assay ISE	SGH CUH
Blood, urine	Sodium	Roche assay ISE	SGH CUH



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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 (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)</u>	In house documented procedures based on standard methods and incorporating Roche Cobas 8000 and c311 ISE manufacturers' instructions as relevant:	
Blood	Chloride	c311 ISE	RNOH
Blood	Sodium	c311 ISE	RNOH
Blood	Potassium	c311 ISE	RNOH
	ACTH	In house documented procedures based on standard methods and incorporating Roche Cobas 8000 and e602 Enzyme immunoassay	SGH
	Growth Hormone		SGH
	Insulin		SGH
	ACT	In house documented procedures based on standard methods and incorporating Roche Cobas 8000 and e801 Enzyme immunoassay	CUH
	AMH		CUH
	Cortisol		CUH
	Digoxin		CUH
	Ferritin		CUH
	Folic Acid		CUH
	FreeT3		CUH
	FreeT4		CUH
	FSH		CUH
	HCG		CUH
	Leutinisig Hormone		CUH
	Oestradiol		CUH
	Parathyroid Hormone		CUH
	Progesterone		CUH
	Prolactin		CUH
	Prostate Specific Antigen		CUH
	Thyroid Stimulating Hormone		CUH
	Troponin T		CUH
	Vitamin B12		CUH



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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 standard methods and incorporating Roche Cobas 8000 and c702 manufacturers' instructions as relevant:	
	Calculated tests		
	Cholesterol LDL	Cobas c702 By calculation	KHFT
	Creatinine Clearance	By calculation	KHFT
	eGFR	By calculation	KHFT
	Acute Kidney Injury (AKI)	By calculation	KHFT
	Adjusted Calcium	By calculation	KHFT
	Albumin/Creatinine Ratio	By calculation	KHFT
Urine	Protein/Creatinine Ratio	By calculation	KHFT
Blood, CSF	Alanine Transaminase	Colorimetric method	KHFT
	Albumin		KHFT
	Alcohol (Ethanol)		KHFT
	Alkaline Phosphatase		KHFT
	Ammonia		KHFT
	Amylase		KHFT
	Aspartate Transaminase		KHFT
	Bicarbonate		KHFT
	Bilirubin (Total)		KHFT
	Bilirubin Conjugated		KHFT
	C Reactive Protein		KHFT
	Calcium		KHFT
	Carbamazepine		KHFT
	Cholesterol		KHFT
	Cholesterol HDL		KHFT
	Creatine Kinase		KHFT
	Creatinine (Enzymatic method)		KHFT
	Creatinine (Jaffe)		KHFT
	CSF Protein		KHFT
	Digoxin		KHFT
	Gamma GT		KHFT
	Gentamicin		KHFT
	Glucose Tolerance Test		KHFT
	Glucose		KHFT
	Lactate		KHFT
	LDH		KHFT



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis (cont'd):</u> Lipase Lithium Magnesium Microalbumin Paracetamol Phenytoin Phosphate Protein Salicylate Theophylline Total Protein Triglyceride Urea Uric Acid Vancomycin Iron Transferrin	In house documented procedures based on standard methods and incorporating Roche Cobas 8000 and c702 manufacturers' instructions as relevant: In house documented procedures based on standard methods and incorporating Roche Cobas 8000 and ISE manufacturers' instructions as relevant:	 KHFT KHFT KHFT KHFT KHFT KHFT KHFT KHFT KHFT KHFT KHFT KHFT KHFT KHFT KHFT KHFT
Blood	Chloride	Roche assay c702 ISE	KHFT
Blood, urine	Potassium	Roche assay c702 ISE	KHFT
Blood, urine	Sodium	Roche assay c702 ISE	KHFT



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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 standard methods and incorporating Roche Cobas 8000 and e602 manufacturers' instructions as relevant:	KHFT
Whole blood	25-Hydroxy Vitamin D AFP Tumour Marker CA125 CA199 Carcinoembryonic antigen Cortisol Ferritin Folic Acid FreeT3 FreeT4 FSH HCG Leutinisig Hormone Macroprolactin ntProBNP Oestradiol Parathyroid Hormone Progesterone Prolactin Prostate Specific Antigen Sex Hormone Binding Globulin Testosterone Thyroid Stimulating Hormone Troponin T Vitamin B12	Roche Cobas e602 Enzyme immunoassay	KHFT KHFT



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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 standard methods and incorporating Roche Cobas 8000 and c311, c411 manufacturers' instructions as relevant:	
Blood	Bicarbonate	Roche Cobas c311 Colorimetric method	ED
	Urea		ED
	Creatinine		ED
	Albumin		ED
	ALP		ED
	ALT		ED
	Bilirubin		ED
	Conjugated Bilirubin		ED
	Phosphate		ED
	Calcium		ED
	CRP		ED
	Glucose		ED
	Lipase		ED
	Alcohol		ED
	Salicylate		ED
	Paracetamol		ED
Blood	Troponin BHCG	Roche Cobas c411 Colorimetric method	ED ED
Whole blood	C Reactive Protein Creatinine (Jaffe) Creatinine (Enzymatic method) Alkaline Phosphatase Alanine Transaminase Bilirubin Total Albumin Calcium Phosphate Glucose Urea Magnesium Gentamycin Vancomycin Amikacin Lipase	Roche Cobas c311 Colorimetric method unless specified	RNOH RNOH RNOH RNOH RNOH RNOH RNOH RNOH RNOH RNOH RNOH RNOH RNOH RNOH RNOH RNOH RNOH RNOH



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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 standard methods and manufacturers' instructions as relevant:	
Whole blood	Troponin	AQT 90 analyser Immunoassay	RNOH
Blood and urine	Osmolality	Advanced Instruments 3320 Osmometry - Freezing point depression CBS-BI-PR-24	SGH CUH KHFT
Faeces	Faecal Calprotectin	DiaSorin Liaison XL LIAISON® Calprotectin CLIA CBS-BI-MA-PR-39	SGH
Faeces	Detection of faecal haemoglobin (HbA ₀)	Faecal Immunochemical testing (FIT) using the OC Sensor iO by immunoassay latex agglutination SWLPM-BSOP133	SGH
CSF	Bilirubin (xanthochromia)	Eppendorf Bio Spectrometer CBS-BI-MA-PR-13	SGH
CSF	Bilirubin (xanthochromia)	Cecil Spectrophotometer CBS-BI-MA-PR-35	CUH
Calculus - stones	Determination of Composition	FTIR (Perkin Elmer) CBS-BI-MA-PR-20	SGH
Whole blood	Alkaline Phosphatase Isoenzymes	Helena Biosciences SAS 1 Plus kit electrophoresis platform CBS-BI-MA-PR-47	SGH
Urine	Detection of <ul style="list-style-type: none"> • 3-Methoxytyramine • Metadrenaline • Normetadrenaline 	Perkin Elmer HPLC using ChromSystems Metadrenaline kit CBS-BI-MA-PR-14	SGH
Urine	5 HIAA	Perkin Elmer HPLC using ChromSystems kit CBS-BI-MA-PR-17	SGH
Urine & Fluids	pH	Direct measurement using pH meter CBS-BI-MA-PR-21	SGH



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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 standard methods and manufacturers' instructions as relevant:	
Sweat	Chloride	Roche ISE assay using Roche 9180 CBS-BI-MA-PR-7	SGH
Sweat	Measurement of Conductivity	Westcor Sweatchek conductivity meter, direct measurement CBS-BI-MA-PR-1	KHFT
Blood	APOE Genotype	Roche Light Cycler PCR TIB-MOL-BIOL CBS-BI-MA-PR33	SGH
Blood	Haemoglobin A1C	Electrophoresis using Sebia Capillarys3 CBS-BI-MPR-6	SGH
24 hr Urine	Oxalate	Trinity Biotech kit Spectrophotometry CBS-BI-MA-PR-26	SGH
Urine	Porphobilinogen	BioRad kit Spectrophotometry CBS-BI-MA-PR-25	SGH
Urine	Porphyrins	Scan Urine Spectrophotometry CBS-BI-MA-PR-40	SGH
END			