


# 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 9616</p> <p>Accredited to ISO 15189:2012</p>	<h3>National Waiting Times Centre Board</h3> <p>Issue No: 003    Issue date: 02 July 2020</p>	
	<p><b>National Waiting Times Centre Board</b> Golden Jubilee National Hospital Agamemnon Street Clydebank G81 4DY</p>	<p><b>Contact: Fiona Holland</b> Tel: +44 (0) 141 951 5930 E-Mail: <a href="mailto:fiona.holland@gjnh.scot.nhs.uk">fiona.holland@gjnh.scot.nhs.uk</a> Website: <a href="http://www.nhsgoldenjubilee.co.uk/">http://www.nhsgoldenjubilee.co.uk/</a></p>
<p><b>Testing performed at the above address only</b></p>		

### DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN SAMPLES AND TISSUES	<u>Biochemistry examination activities for the purposes of clinical diagnosis</u>	In-house documented procedures
Serum, Plasma, Urine	<u>Bone Profile</u> Phosphate	Roche Cobas 6000, Photometric SOP: CS-LAB-CHE-PRO-49
Serum, Plasma	Magnesium	Roche Cobas 6000, Colorimetric SOP: CS-LAB-CHE-PRO-48
Serum, Plasma, Urine	Calcium	Roche Cobas 6000, Photometric SOP: CS-LAB-CHE-PRO-37
Serum, Plasma	<u>Cardiac Markers</u> Creatine Kinase	Roche Cobas 6000, Photometric SOP: CS-LAB-CHE-PRO-69
Plasma	nt-Pro BNP	Roche Cobas 6000, Immunoassay SOP: CS-LAB-CHE-PRO-59
Serum, Plasma	TNT	Roche Cobas 6000, Electrochemiluminescence Immunoassay SOP: CS-LAB-CHE-PRO-60
Serum, Plasma	General Chemistry Amylase	Roche Cobas 6000, Colorimetric SOP: CS-LAB-CHE-PRO-66
Serum, Plasma	C-Reactive Protein	Roche Cobas 6000, Immunoturbidimetric SOP: CS-LAB-CHE-PRO-40



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HUMAN SAMPLES AND TISSUES (cont'd)	<u>Biochemistry examination activities for the purposes of clinical diagnosis</u> (cont'd)	In-house documented procedures
Serum, Plasma	Ferritin	Roche Cobas 6000, Turbimetric inhibition Immunoassay SOP: CS-LAB-CHE-PRO-57
Whole Blood	HbA1C	Roche Cobas 6000, Immunoturbimetric SOP: CS-LAB-CHE-PRO-63
Serum, Plasma	HCG Pregnancy	Roche Cobas 6000, Immunoassay Electrochemiluminescence SOP: CS-LAB-CHE-PRO-58
Plasma	Lactate	Roche Cobas 6000, Colorimetric SOP: CS-LAB-CHE-PRO-46
Serum, Plasma	Lactate Dehydrogenase	Roche Cobas 6000, Photometric SOP: CS-LAB-CHE-PRO-47
Serum, Plasma	Urate	Roche Cobas 6000, Colorimetric SOP: CS-LAB-CHE-PRO-53
Plasma	Glucose	Roche Cobas 6000, SOP: CS-LAB-CHE-PRO-43
Urine	Urine analysis detecting the presence/concentration of the following: Protein, Blood, Leucocytes, Nitrites, Glucose, Ketones, pH, Specific Gravity, Bilirubin, and Urobilinogen.	Siemens Clinitek Urine Analyser, Colorimetric SOP: CS-LAB-CHE-PRO-52
Serum, Plasma, urine	Osmolality	Advanced Instruments Microosmometer, Freezing Point Depression Measurement SOP: CS-LAB-CHE-PRO-31



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HUMAN SAMPLES AND TISSUES (cont'd)	<u>Biochemistry examination activities for the purposes of clinical diagnosis</u> (cont'd)	In-house documented procedures
	<u>Iron profile</u>	
Serum, Plasma	Iron	Roche Cobas 6000, Colorimetric SOP: CS-LAB-CHE-PRO-45
Serum, Plasma	Transferrin	Roche Cobas 6000, Immunoturbidimetric SOP: CS-LAB-CHE-PRO-70
	<u>Lipid Profile</u>	
Serum, Plasma	Cholesterol	Roche Cobas 6000, Colorimetric SOP: CS-LAB-CHE-PRO-67
Serum, Plasma	Triglyceride	SOP: CS-LAB-CHE-PRO-51
Serum, Plasma	HDL	Roche Cobas 6000, Photometric SOP: CS-LAB-CHE-PRO-44
	<u>Liver Function Tests</u>	
Serum, Plasma	Albumin	Roche Cobas 6000, Photometric SOP: CS-LAB-CHE-PRO-32
Serum, Plasma	ALP	Roche Cobas 6000, Colorimetric SOP: CS-LAB-CHE-PRO-34
Serum, Plasma	ALT	SOP: CS-LAB-CHE-PRO-35
Serum, Plasma	AST	SOP: CS-LAB-CHE-PRO-33
Serum, Plasma	Bilirubin Total	SOP: CS-LAB-CHE-PRO-68
Serum, Plasma	GGT	SOP: CS-LAB-CHE-PRO-42
Serum, Plasma	Protein Total	Roche Cobas 6000, Photometric SOP: CS-LAB-CHE-PRO-50
Serum, Plasma	Bilirubin Direct	SOP: CS-LAB-CHE-PRO-36
	<u>Therapeutic Drug Monitoring</u>	
Serum, Plasma	Gentamycin	Roche Cobas 6000, Immunoassay SOP: CS-LAB-CHE-PRO-64
Serum, Plasma	Vancomycin	SOP: CS-LAB-CHE-PRO-55



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HUMAN SAMPLES AND TISSUES (cont'd)	<u>Biochemistry examination activities for the purposes of clinical diagnosis</u> (cont'd)	In-house documented procedures
	<u>Therapeutic Drug Monitoring</u> (cont'd)	
Serum, Plasma	Digoxin	Roche Cobas 6000, Electrochemiluminescence Immunoassay SOP: CS-LAB-CHE-PRO-56
	<u>Thyroid Function Tests</u>	
Serum, Plasma	FT4	Roche Cobas 6000, Electrochemiluminescence Immunoassay SOP: CS-LAB-CHE-PRO-62
Serum, Plasma	TSH	SOP: CS-LAB-CHE-PRO-61
	<u>Urea and Electrolytes</u>	
Serum, Plasma	Bicarbonate	Roche Cobas 6000, Colorimetric SOP: CS-LAB-CHE-PRO-38
Serum, Plasma	Chloride	Roche Cobas 6000, Indirect ISE SOP: CS-LAB-CHE-PRO-41
Serum, Plasma, Urine	Creatinine	Roche Cobas 6000, Colorimetric SOP: CS-LAB-CHE-PRO-39
Serum, Plasma, Urine	Sodium	Roche Cobas 6000, Indirect ISE SOP: CS-LAB-CHE-PRO-41
Serum, Plasma, Urine	Potassium	SOP: CS-LAB-CHE-PRO-41
Serum, Plasma, Urine	Urea	Roche Cobas 6000, Photometric SOP: CS-LAB-CHE-PRO-54
	<u>Calculated Parameters</u>	
Serum, Plasma	Adjusted calcium	SOP: CS-LAB-CHE-PRO-37
	Cholesterol : HDL cholesterol ratio	SOP: CS-LAB-CHE-PRO-67
	LDL Cholesterol	SOP: CS-LAB-CHE-PRO-67
	Globulins	SOP: CS-LAB-CHE-VED-3



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HUMAN SAMPLES AND TISSUES (cont'd)	<u>Biochemistry examination activities for the purposes of clinical diagnosis</u> (cont'd)	In-house documented procedures
	<u>Calculated Parameters</u> (cont'd)	
	Anion Gap	SOP: CS-LAB-CHE-VED-3
	VLDL	SOP: CS-LAB-CHE-VED-3
	Estimated GFR	SOP: CS-LAB-CHE-VED-3
	<u>Blood Transfusion examination activities for the purposes of clinical diagnosis</u>	In-house documented procedures
	<u>Group and Save</u>	Ortho Clinical Diagnostic Autovue Column Agglutination Technology SOP: CS-LAB-BT-PRO-4
Whole blood	Blood Group Antigens, A, B, D, C, c, E, e, Kell, Duffy(a), Duffy(b), Lewis(a), S,M, Kidd(a)	Ortho Clinical Diagnostic Autovue/Manual Column Agglutination Technology SOP: CS-LAB-BT-PRO-4 and 50
	Blood Group Antibodies which can be identified as single specificity are D,C,c,E,e,f, Kell, Duffy(a), Duffy(b), Cw, Kidd(a), Kidd(b), Lewis(a), Lewis(b), M, N, S, s, P1, Lutheran(a), Lutheran(b), Kp(a), Kp(b), Js(b).	Ortho Clinical Diagnostic Autovue Column Agglutination Technology SOP: CS-LAB-BT-PRO-4
Whole Blood / Plasma	Anti Human Globulin	Ortho Clinical Diagnostic Autovue Column Agglutination Technology SOP: CS-LAB-BT-PRO-50
	<u>Crossmatch</u>	
	Serological	Ortho Clinical Diagnostic Autovue Column Agglutination Technology with electronic issue SOP: CS-LAB-BT-PRO-5
	<u>Direct Coombs Test</u>	
Whole Blood / Packed cells	Polyspecific Classification: A polyspecific DCT has a combination of IgG, C3b and C3d immunoglobulins present.	Ortho Clinical Diagnostic Autovue Column Agglutination Technology SOP: CS-LAB-BT-PRO-50



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HUMAN SAMPLES AND TISSUES (cont'd)	<u>Blood Transfusion examination activities for the purposes of clinical diagnosis</u> (cont'd)	In-house documented procedures
	<u>Rhesus Phenotype</u>	
	C, c, E, e	Ortho Clinical Diagnostic Autovue Column Agglutination Technology SOP: CS-LAB-BT-PRO-50
Whole Blood / Packed cells	Antigen testing: A, B, D, C, c, E, e, Kell, Duffy(a), Duffy(b), Lewis(a), S,M, Kidd(a)	Ortho Clinical Diagnostic Biovue Column Agglutination Technology or direct agglutination SOP: CS-LAB-BT-PRO-50
	<u>Haematology examination activities for the purposes of clinical diagnosis</u>	In-house documented procedures
	<u>Automated Haematology</u>	
Whole Blood	White Cell Count	Sysmex XN-2000 SOP: CS-LAB-HAE-PRO-3 Fluorescence flow cytometry
	Reticulocytes	
	Neutrophils	
	Lymphocytes	
	Monocytes	
	Eosinophils	
	Basophils	
	Nucleated Red Cells	
	Red Cell Count	Hydrodynamic focussing direct current
	Platelets	
	Red Cell Distribution Width	
	Haematocrit	
	Haemoglobin	Spectrophotometric sodium laurel sulphate lysis



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HUMAN SAMPLES AND TISSUES (cont'd)	<u>Haematology examination activities for the purposes of clinical diagnosis</u> (cont'd)	In-house documented procedures
	<u>Automated Haematology</u> (cont'd)	
	Mean Cell Volume	Calculation $HCT \times 1000 / RBC$
	Mean Cell Haemoglobin	Calculation $HB \times 10 / RBC$
	Mean Cell Haemoglobin Concentration	Calculation $HB / HCT$
	<u>Coagulation</u>	
Whole Blood	Prothrombin Time	ACLTOP350CTS SOP CS-LAB-HAE-PRO-8 Coagulometric turbidimetric clot detection
	INR	ISI adjusted Prothrombin Ratio from Mean normal PT
	Activated Partial Thromboplastin Time	Coagulometric turbidimetric clot detection
	Activated Partial Thromboplastin Ratio	APTT ration Ratio from Mean normal APTT
	ThrombinTime	Coagulometric turbidimetric clot detection
	Clauss Fibrinogen	Coagulometric turbidimetric clot detection – Measurement from standard curve
	Erythrocyte Sedimentation Rate	Becton Dickenson modified manual Westergren SOP: CS-LAB-HAE-PRO-17
	Sickle Cell Screen	TCS Bioscience sodium dithionate solubility test SOP: CS-LAB-HAE-PRO-3
	Blood Film Morphology	Microscopic blood smear examination SOP: CS-LAB-HAE-PRO-20



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HUMAN SAMPLES AND TISSUES (cont'd)	<u>Haematology examination activities for the purposes of clinical diagnosis</u> (cont'd)	
Whole Blood (cont'd)	<u>Coagulation</u> (cont'd) Blood Film Manual Differential White Cell Count	Microscopic white cell differential count SOP: CS-LAB-HAE-PRO-21
Whole Blood, joint fluid and pleural fluid	<u>Microbiology examination activities for the purposes of clinical diagnosis</u> Blood Cultures – Detection & Culture of micro-organisms	In-house documented procedures based on related UK standards (SMI's) Automated culture using BacTalert & SOP No. CS-LAB-MIC-PRO-6
Urine	Quantification & Detection of WBCs, RBCs, EPCs, Yeasts (manual microscopy) & Bacteria (culture)	Manual microscopy & culture SOP No. CS-LAB-MIC-PRO-20
Sputum, pleural fluid/abscess, empyema, bronchial aspirate/lavage/brushings and tracheal aspirate etc.	Detection of AAFB	Auramine Phenol Microscopy SOP No. CS-LAB-MIC-PRO-51
Rectal Swabs / Faeces (Screening)	<u>Isolation of Microorganisms of Clinical Significance</u>	Microscopy and Routine Culture procedures: SOP No. CS-LAB-MIC-PRO-99
Faeces / Rectal Swabs		SOP No. CS-LAB-MIC-PRO-30
CSF		SOP No. CS-LAB-MIC-PRO-29
Ear, nose, throat, mouth and eye swabs etc.		SOP No. CS-LAB-MIC-PRO-103
Wound swab (Sternum, chest drain, leg, ortho, line site etc.), chest drain / sternal fluid, wound drain fluid and IV lines/tips		SOP No. CS-LAB-MIC-PRO-102
MRSA screening swabs (nose, perineum, throat, groin, axilla and wound etc)		SOP No. CS-LAB-MIC-PRO-14





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HUMAN SAMPLES AND TISSUES (cont'd)	<u>Microbiology examination activities for the purposes of clinical diagnosis</u> (cont'd)	In-house documented procedures based on related UK standards (SMI's)
Urogenital swabs (vaginal, cervical, vulval, labial, urethral and penile etc)	<u>Isolation of Microorganisms of Clinical Significance</u> (cont'd)	Microscopy and Routine Culture procedures (cont'd): SOP No. CS-LAB-MIC-PRO-22
Sputum, pleural fluid/abscess, empyema, bronchial aspirate/lavage/brushings and tracheal aspirate etc		SOP No. CS-LAB-MIC-PRO-17
Bursa fluid, synovial fluid, peritoneal fluid, pericardial fluid, and bile etc		SOP No. CS-LAB-MIC-PRO-101
Orthopaedic tissue, bone, hip screws, prosthetic joint fittings, native heart valves, prosthetic heart valves, pacemakers, lung biopsies, lymph nodes, lung / sternal tissue and skin biopsies etc		SOP No. CS-LAB-MIC-PRO-19
Bacteria & Yeastl isolates cultured in-house from the above samples	Identification of Microorganisms of clinical significance	Vitek 2 Compact (Automated) together with manual biochemical tests - SOP No. CS-LAB-MIC-PRO-57 & SOP No. 59, 60, 61, 62, 64, 66, 67, 70 & 105.
Bacterial & Yeast isolates cultured in-house from the above samples	Antibiotic Susceptibility Testing of bacterial isolates of clinical significance.	Vitek 2 Compact (Automated) SOP No. CS-LAB-MIC-PRO-57  EUCAST (Disk Diffusion) SOP No. CS-LAB-MIC-PRO-48  E test (Gradient MIC) SOP No. CS-LAB-MIC-PRO-50
Faeces	Detection of C. difficile GDH Antigen & Toxin A/B	Techlab C. diff GDH Quikchek & C. diff Tox A/B Quikchek (Alere) Lateral Flow Immunoassays SOP No. CS-LAB-MIC-PRO-30



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Urine	Detection of Legionella Urinary Antigen	BinaxNOW Legionella UAT (Abbott) Lateral Flow Immunoassay – SOP No. CS-LAB-MIC-PRO-100
END		