

## Laboratory Medicine - Testing Scope

The following table lists all tests provided as part of the departments diagnostic service.

Laboratory Medicine at Salisbury NHS Foundation Trust is accredited to ISO 15189:2022 Medical Laboratory Standards by the United Kingdom Accreditation Service (UKAS), certificate number 9687.

Where tests provided by the department do not form part of our accredited scope they are highlighted as such, our users should be assured that robust validation and / or verification procedures are completed prior to introduction of all tests which are performed by trained and competent staff.

Testing Scope	Platform
<b><i>Biochemistry examination activities for the purposes of clinical diagnosis:</i></b>	
<b><i>Quantitative determination of:</i></b>	
Sodium	Roche Cobas 8000 702 - Indirect ion selective electrodes, turbidimetric, enzymatic or colorimetric photometry
Potassium	Roche Cobas 8000 702 - Indirect ion selective electrodes, turbidimetric, enzymatic or colorimetric photometry
Urea	Roche Cobas 8000 702 - Indirect ion selective electrodes, turbidimetric, enzymatic or colorimetric photometry
Creatinine	Roche Cobas 8000 702 - Indirect ion selective electrodes, turbidimetric, enzymatic or colorimetric photometry
Bicarbonate	Roche Cobas 8000 702 - Indirect ion selective electrodes, turbidimetric, enzymatic or colorimetric photometry
Chloride	Roche Cobas 8000 702 - Indirect ion selective electrodes, turbidimetric, enzymatic or colorimetric photometry
Albumin	Roche Cobas 8000 702 - Indirect ion selective electrodes, turbidimetric, enzymatic or colorimetric photometry
Total Bilirubin	Roche Cobas 8000 702 - Indirect ion selective electrodes, turbidimetric, enzymatic or colorimetric photometry
Direct Bilirubin	Roche Cobas 8000 702 - Indirect ion selective electrodes, turbidimetric, enzymatic or colorimetric photometry
Total Protein	Roche Cobas 8000 702 - Indirect ion selective electrodes, turbidimetric, enzymatic or colorimetric photometry
Total Protein	Roche Cobas 8000 702 - Indirect ion selective electrodes, turbidimetric, enzymatic or colorimetric photometry

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Alkaline Phosphatase ALP	Roche Cobas 8000 702 - Indirect ion selective electrodes, turbidimetric, enzymatic or colorimetric photometry
Alanine Aminotransferase ALT	Roche Cobas 8000 702 - Indirect ion selective electrodes, turbidimetric, enzymatic or colorimetric photometry
Gamma Glutamyltransferase GGT	Roche Cobas 8000 702 - Indirect ion selective electrodes, turbidimetric, enzymatic or colorimetric photometry
Calcium	Roche Cobas 8000 702 - Indirect ion selective electrodes, turbidimetric, enzymatic or colorimetric photometry
Phosphate	Roche Cobas 8000 702 - Indirect ion selective electrodes, turbidimetric, enzymatic or colorimetric photometry
Amylase	Roche Cobas 8000 702 - Indirect ion selective electrodes, turbidimetric, enzymatic or colorimetric photometry
Cholesterol	Roche Cobas 8000 702 - Indirect ion selective electrodes, turbidimetric, enzymatic or colorimetric photometry
Triglycerides	Roche Cobas 8000 702 - Indirect ion selective electrodes, turbidimetric, enzymatic or colorimetric photometry
HDL Cholesterol	Roche Cobas 8000 702 - Indirect ion selective electrodes, turbidimetric, enzymatic or colorimetric photometry
Glucose	Roche Cobas 8000 702 - Indirect ion selective electrodes, turbidimetric, enzymatic or colorimetric photometry
A-1-Antitrypsin	Roche Cobas 8000 702 - Indirect ion selective electrodes, turbidimetric, enzymatic or colorimetric photometry
Asparate Aminotransferase AST	Roche Cobas 8000 702 - Indirect ion selective electrodes, turbidimetric, enzymatic or colorimetric photometry
Ammonia	Roche Cobas 8000 702 - Indirect ion selective electrodes, turbidimetric, enzymatic or colorimetric photometry
Lactate	Roche Cobas 8000 702 - Indirect ion selective electrodes, turbidimetric, enzymatic or colorimetric photometry
Creatine Kinase	Roche Cobas 8000 702 - Indirect ion selective electrodes, turbidimetric, enzymatic or colorimetric photometry
C-Reactive Protein CRP	Roche Cobas 8000 702 - Indirect ion selective electrodes, turbidimetric, enzymatic or colorimetric photometry
Iron	Roche Cobas 8000 702 - Indirect ion selective electrodes, turbidimetric, enzymatic or colorimetric photometry

Lactate Dehydrogenase LDH	Roche Cobas 8000 702 - Indirect ion selective electrodes, turbidimetric, enzymatic or colorimetric photometry
Magnesium	Roche Cobas 8000 702 - Indirect ion selective electrodes, turbidimetric, enzymatic or colorimetric photometry
Bile Acids	Roche Cobas 8000 702 - Indirect ion selective electrodes, turbidimetric, enzymatic or colorimetric photometry
Uric acid	Roche Cobas 8000 702 - Indirect ion selective electrodes, turbidimetric, enzymatic or colorimetric photometry
Microalbumin	Roche Cobas 8000 702 - Indirect ion selective electrodes, turbidimetric, enzymatic or colorimetric photometry
Complement C3	Roche Cobas 8000 702 - Indirect ion selective electrodes, turbidimetric, enzymatic or colorimetric photometry
Complement C4	Roche Cobas 8000 702 - Indirect ion selective electrodes, turbidimetric, enzymatic or colorimetric photometry
Transferrin	Roche Cobas 8000 702 - Indirect ion selective electrodes, turbidimetric, enzymatic or colorimetric photometry
Immunoglobulins – IgG	Roche Cobas 8000 702 - Indirect ion selective electrodes, turbidimetric, enzymatic or colorimetric photometry
Immunoglobulins – IgA	Roche Cobas 8000 702 - Indirect ion selective electrodes, turbidimetric, enzymatic or colorimetric photometry
Immunoglobulins – IgM	Roche Cobas 8000 702 - Indirect ion selective electrodes, turbidimetric, enzymatic or colorimetric photometry
Rheumatoid factor	Roche Cobas 8000 702 - Indirect ion selective electrodes, turbidimetric, enzymatic or colorimetric photometry
Calprotectin	Roche Cobas 8000 702 - Indirect ion selective electrodes, turbidimetric, enzymatic or colorimetric photometry
Carbamazepine	Roche Cobas 8000 702 - Indirect ion selective electrodes, turbidimetric, enzymatic or colorimetric photometry
Gentamicin	Roche Cobas 8000 702 - Indirect ion selective electrodes, turbidimetric, enzymatic or colorimetric photometry
Lithium	Roche Cobas 8000 702 - Indirect ion selective electrodes, turbidimetric, enzymatic or colorimetric photometry
Phenytoin	Roche Cobas 8000 702 - Indirect ion selective electrodes, turbidimetric, enzymatic or colorimetric photometry

Theophylline	Roche Cobas 8000 702 - Indirect ion selective electrodes, turbidimetric, enzymatic or colorimetric photometry
Vancomycin	Roche Cobas 8000 702 - Indirect ion selective electrodes, turbidimetric, enzymatic or colorimetric photometry
Paracetamol	Roche Cobas 8000 702 - Indirect ion selective electrodes, turbidimetric, enzymatic or colorimetric photometry
Salicylate	Roche Cobas 8000 702 - Indirect ion selective electrodes, turbidimetric, enzymatic or colorimetric photometry
Alcohol	Roche Cobas 8000 702 - Indirect ion selective electrodes, turbidimetric, enzymatic or colorimetric photometry
ATPO	Roche Cobas 8000 801 - Electrochemiluminescence
AFP	Roche Cobas 8000 801 - Electrochemiluminescence
B12	Roche Cobas 8000 801 - Electrochemiluminescence
CA125	Roche Cobas 8000 801 - Electrochemiluminescence
CA199	Roche Cobas 8000 801 - Electrochemiluminescence
CA153	Roche Cobas 8000 801 - Electrochemiluminescence
CEA	Roche Cobas 8000 801 - Electrochemiluminescence
Cortisol	Roche Cobas 8000 801 - Electrochemiluminescence
Digoxin	Roche Cobas 8000 801 - Electrochemiluminescence
Ferritin	Roche Cobas 8000 801 - Electrochemiluminescence
Folate	Roche Cobas 8000 801 - Electrochemiluminescence
FSH	Roche Cobas 8000 801 - Electrochemiluminescence
FT3	Roche Cobas 8000 801 - Electrochemiluminescence

FT4	Roche Cobas 8000 801 - Electrochemiluminescence
HCG	Roche Cobas 8000 801 - Electrochemiluminescence
LH	Roche Cobas 8000 801 - Electrochemiluminescence
Oestradiol	Roche Cobas 8000 801 - Electrochemiluminescence
Progesterone	Roche Cobas 8000 801 - Electrochemiluminescence
Prolactin	Roche Cobas 8000 801 - Electrochemiluminescence
PSA	Roche Cobas 8000 801 - Electrochemiluminescence
PTH	Roche Cobas 8000 801 - Electrochemiluminescence
SHBG	Roche Cobas 8000 801 - Electrochemiluminescence
Testosterone	Roche Cobas 8000 801 - Electrochemiluminescence
TSH	Roche Cobas 8000 801 - Electrochemiluminescence
25 OH Vitamin D	Roche Cobas 8000 801 - Electrochemiluminescence
Macroprolactin Screen	Roche Cobas 8000 801 - Electrochemiluminescence
Troponin T	Roche Cobas 8000 801 - Electrochemiluminescence
NT pro BNP	Roche Cobas 8000 801 - Electrochemiluminescence
CCP	Roche Cobas 8000 801 - Electrochemiluminescence
Screening of serum paraproteins	SEBIA Capillary 3 – Capillary Electrophoresis
Screening for urine Bence Jones protein	SEBIA Hydrasys - Gel Protein Electrophoresis

<b>Typing of Paraprotein</b>	
IgA Kappa/Lambda	SEBIA Hydrasys Immunofixation
IgG Kappa/Lambda	SEBIA Hydrasys Immunofixation
IgM Kappa/Lambda	SEBIA Hydrasys Immunofixation
<b>Free Light Chain quantification</b>	
Free Kappa	Optilite (turbidimetry method)
Free Lambda	Optilite (turbidimetry method)
HbA1c estimation	Tosoh G11 HPLC system
Osmolality	Advanced Instruments Osmometer Model OSMO1 -(freezing point depression)
<b>Haematological examination activities for the purposes of clinical diagnosis:</b>	
<b>Full Blood count (FBC) analysis of the following:</b>	
HB	Beckman-Coulter DXH 900 analysers using Volume, Conductivity and Scatter (VCS) technology and photometric technology
WBC	Beckman-Coulter DXH 900 analysers using Volume, Conductivity and Scatter (VCS) technology and photometric technology
PLT	Beckman-Coulter DXH 900 analysers using Volume, Conductivity and Scatter (VCS) technology and photometric technology
RBC	Beckman-Coulter DXH 900 analysers using Volume, Conductivity and Scatter (VCS) technology and photometric technology
HCT	Beckman-Coulter DXH 900 analysers using Volume, Conductivity and Scatter (VCS) technology and photometric technology

MCV	Beckman-Coulter DXH 900 analysers using Volume, Conductivity and Scatter (VCS) technology and photometric technology
MCH	Beckman-Coulter DXH 900 analysers using Volume, Conductivity and Scatter (VCS) technology and photometric technology
MCHC	Beckman-Coulter DXH 900 analysers using Volume, Conductivity and Scatter (VCS) technology and photometric technology
RDW	Beckman-Coulter DXH 900 analysers using Volume, Conductivity and Scatter (VCS) technology and photometric technology
MPV	Beckman-Coulter DXH 900 analysers using Volume, Conductivity and Scatter (VCS) technology and photometric technology
NEUTA	Beckman-Coulter DXH 900 analysers using Volume, Conductivity and Scatter (VCS) technology and photometric technology
LYMA	Beckman-Coulter DXH 900 analysers using Volume, Conductivity and Scatter (VCS) technology and photometric technology
MONA	Beckman-Coulter DXH 900 analysers using Volume, Conductivity and Scatter (VCS) technology and photometric technology
EOSA	Beckman-Coulter DXH 900 analysers using Volume, Conductivity and Scatter (VCS) technology and photometric technology
BASOA	Beckman-Coulter DXH 900 analysers using Volume, Conductivity and Scatter (VCS) technology and photometric technology
NRBC	Beckman-Coulter DXH 900 analysers using Volume, Conductivity and Scatter (VCS) technology and photometric technology
RETICS	Beckman-Coulter DXH 900 analysers using Volume, Conductivity and Scatter (VCS) technology and photometric technology
Erythrocyte Sedimentation Rate (ESR)	Starsed ST Westergren method
Screening for infectious mononucleosis (IM) qualitative and semiquantitative detection of infectious mononucleosis heterophile antibodies	Accusay MONO rapid test for Infectious mononucleosis. Direct solid-phase Immunoassay Technology

Sickle screening solubility test for the presence of Haemoglobin S	Helena Bioscience HbS-Solubility Screening Kit
<b>Malarial antigens screen for:</b>	
Plasmodium falciparum and pan-detection for: Plasmodium malariae, Plasmodium ovale & Plasmodium vivax	Manual using Carestart US Malaria Rapydtest immuno-chromatographic test kit for Malarial Antigens and confirmation / parasitaemia for Plasmodium Falciparum using light microscopy
<b>Morphology examinations for the purpose of clinical diagnosis</b>	
Blood Film Analysis	May Grunwald-Giemsa staining automated using Beckman Coulter DxH Slide Maker Stainer and manual light microscopy Aerospray Haematology Pro Slide Stainer / Cytocentrifuge May Grunwald Stain (MGG) and manual light microscopy
<b>Haemostasis and thrombosis examinations for the purpose of clinical diagnosis:</b>	
PT/INR	Stago STA R Max Clotting Time Method using an oscillating electromagnetic field. Photometric Measurement
APTT / APTT Ratio	Stago STA R Max Clotting Time Method using an oscillating electromagnetic field. Photometric Measurement
Fibrinogen	Stago STA R Max Clotting Time Method using an oscillating electromagnetic field. Photometric Measurement
D Dimer	Stago STA R Max Clotting Time Method using an oscillating electromagnetic field. Photometric Measurement
Protein C	Stago STA R Max Clotting Time Method using an oscillating electromagnetic field. Photometric Measurement
Anti-thrombin	Stago STA R Max Clotting Time Method using an oscillating electromagnetic field. Photometric Measurement
Free protein S	Stago STA R Max Clotting Time Method using an oscillating electromagnetic field. Photometric Measurement
Lupus	Stago STA R Max Clotting Time Method using an oscillating electromagnetic field. Photometric Measurement



Factor II Assay	Stago STA R Max Clotting Time Method using an oscillating electromagnetic field. Photometric Measurement
Factor V Assay	Stago STA R Max Clotting Time Method using an oscillating electromagnetic field. Photometric Measurement
Factor VII Assay	Stago STA R Max Clotting Time Method using an oscillating electromagnetic field. Photometric Measurement
Factor VIII Assay	Stago STA R Max Clotting Time Method using an oscillating electromagnetic field. Photometric Measurement
Factor IX Assay	Stago STA R Max Clotting Time Method using an oscillating electromagnetic field. Photometric Measurement
Factor X Assay	Stago STA R Max Clotting Time Method using an oscillating electromagnetic field. Photometric Measurement
Factor Xa	Stago STA R Max Clotting Time Method using an oscillating electromagnetic field. Photometric Measurement
Factor XI Assay	Stago STA R Max Clotting Time Method using an oscillating electromagnetic field. Photometric Measurement
Factor XII Assay	Stago STA R Max Clotting Time Method using an oscillating electromagnetic field. Photometric Measurement
Factor XIII Assay	Stago STA R Max Clotting Time Method using an oscillating electromagnetic field. Photometric Measurement
Von Willibrand Factor (VLF)	Stago STA R Max Clotting Time Method using an oscillating electromagnetic field. Photometric Measurement
Von Willibrand Factor Ag	Stago STA R Max Clotting Time Method using an oscillating electromagnetic field. Photometric Measurement
(VWF:Ag)	Stago STA R Max Clotting Time Method using an oscillating electromagnetic field. Photometric Measurement
Von Willibrand Factor Ag	Stago STA R Max Clotting Time Method using an oscillating electromagnetic field. Photometric Measurement
(VWF: RCo)	Stago STA R Max Clotting Time Method using an oscillating electromagnetic field. Photometric Measurement

**Haemoglobinopathy analysis (including Antenatal screening) by detection of haemoglobin variants:**

Hb A	TOSOH G11 HPLC System
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Hb A2	TOSOH G11 HPLC System
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Hb F	TOSOH G11 HPLC System
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Hb S	TOSOH G11 HPLC System
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Hb C	TOSOH G11 HPLC System
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Hb D	TOSOH G11 HPLC System
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Hb E	TOSOH G11 HPLC System
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**Haemoglobinopathy analysis (including Antenatal screening) by detection of haemoglobin variants (confirmatory method):**

Hb S	Sebia Hydrasys 2 using alkaline gel electrophoresis
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Hb C	Sebia Hydrasys 2 using alkaline gel electrophoresis
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Hb D	Sebia Hydrasys 2 using alkaline gel electrophoresis
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Hb E	Sebia Hydrasys 2 using alkaline gel electrophoresis
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**Blood Transfusion examinations to assist in clinical investigations:**

Blood group & Antibody screen (full group or confirmatory group)	Bio-Rad IH500 Column Agglutination
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Rhesus Kell phenotype	Bio-Rad IH500 Column Agglutination
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Blood group (neonatal)	Bio-Rad IH500 Column Agglutination
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A B AB and O Blood groups	Bio-Rad column agglutination and direct agglutination (RT spin)
Rh groups	Bio-Rad column agglutination and direct agglutination (RT spin)
Rh and Kell phenotype	Bio-Rad column agglutination and direct agglutination (RT spin)
Prophylax Antibody screen	Bio-Rad column agglutination and direct agglutination (RT spin)
Group & DAT (neonatal)	Bio-Rad column agglutination and direct agglutination (RT spin)
A B and O groups	Bio-Rad column agglutination and direct agglutination (RT spin)
Rh groups	Bio-Rad column agglutination and direct agglutination (RT spin)
Antibody Identification Panels	Manual testing using the Bio-Rad column agglutination.
Antibodies against the following blood group systems:	Manual testing using the Bio-Rad column agglutination.
Rh, Kell, Kidd, Duffy, Lutheran, MNS, Lewis, P.	Manual testing using the Bio-Rad column agglutination.
Direct Antiglobulin Test monospecific	Manual Bio-Rad column agglutination
Fetal-maternal cells (screening)	Kleihauer Screen - Manually using alkali denaturation and acid elution staining techniques using Guest Meical fetal Cell Detection Kit
Compatibility testing of red cells and leucocytes	Automated with electronic issue and manually using Bio-Rad column agglutination
*Fluid Samples	Roche Cobas 8000 702 - Indirect ion selective electrodes, turbidimetric, enzymatic or colorimetric photometry
*Cryoglobulins - pre analytics only	
*Carboxyhaemoglobin	Radiometer ABL90 Flex Plus
*Sweat Chloride	ELITech ChloroChek Coulometric titration

*Xanthochromia Screen	Spectrophotometric
*Pleural fluid WBC	Beckman-Coulter DXH 900 analysers using Volume, Conductivity and Scatter (VCS) technology and photometric technology
*Inhibitor Screen	Stago STA R Max Clotting Time Method using an oscillating electromagnetic field. Photometric Measurement
*50:50 Mixing Studies	Stago STA R Max Clotting Time Method using an oscillating electromagnetic field. Photometric Measurement
*Iron Stain	Light microscopy following Perl's Prussian Blue iron stain
*PFA	PFA-100
*CSF Cytospin	Cytospin, Aerospray Haematology Pro Slide Stainer / Cyto centrifuge May Grunwald Stain (MGG) and manual light microscopy
*Cord Blood - CB	Manual testing
*Prophylax Antibody screen	Bio-Rad IH500 Column Agglutination
*Direct Antiglobulin Test monospecific	Bio-Rad IH500 Column Agglutination

*\*These tests are not accredited to ISO15189. They are however fully verified by the laboratory prior to use.*