

issued by

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



Issue No: 008 Issue date: 30 July 2025

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Testing performed at the above address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUIDS	<u>Chemical Pathology examination activities for the purposes of clinical diagnosis</u>	Documented in-house methods based on manufacturer's operating instructions where relevant
Serum	<u>Enzymes</u> ALP Amylase ALT AST CK GGT LDH	Beckman AU5812; DXC700AU Photometry SOP: BSC-LP-AU5812 SOP: BSC-LP-ReagCalPrepAU5812 SOP: BSC-LP-ALP SOP: BSC-LP-Amylase SOP: BSC-LP-ALT SOP: BSC-LP-AST SOP: BSC-LP-CK SOP: BSC-LP-GGT SOP: BSC-LP-LDH
Serum	<u>Metabolites</u> Albumin Ammonia Bicarbonate Bilirubin (direct) Total bilirubin Calcium Cholesterol Creatinine Ethanol Glucose HDL cholesterol Inorganic phosphate Iron Lactate Magnesium Total Protein Triglyceride Urea Uric acid	SOP: BSC-LP-Albumin SOP: BSC-LP-Ammonia SOP: BSC-LP-Bicarbonate SOP: BSC-LP-BilDirect SOP: BSC-LP-Bilirubin SOP: BSC-LP-Calcium SOP: BSC-LP-Chol SOP: BSC-LP-Creatinine SOP: BSC-LP-Alcohol SOP: BSC-LP-Glucose SOP: BSC-LP-HDLChol SOP: BSC-LP-Phosphate SOP: BSC-LP-Iron SOP: BSC-LP-Lactate SOP: BSC-LP-Magnesium SOP: BSC-LP-TP SOP: BSC-LP-Trigs SOP: BSC-LP-Urea SOP: BSC-LP-Urate



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HUMAN BODY FLUIDS (cont'd)	<u>Chemical Pathology examination activities for the purposes of clinical diagnosis (cont'd)</u>	Documented in-house methods based on manufacturer's operating instructions
Serum	<u>Therapeutic Drug Monitoring</u> Carbamazepine Gentamicin Lithium Paracetamol Phenytoin Salicylate Theophylline Digoxin Vancomycin	Beckman AU5812; DXC700AU Photometry cont'd SOP: BSC-LP-AU5812 SOP: BSC-LP-ReagCalPrepAU5812
Serum	<u>Special Proteins</u> C3 C4 IgA IgG IgM Transferrin Apo lipoprotein B C reactive protein	SOP: BSC-LP-C3 SOP: BSC-LP-C4 SOP: BSC-LP-IgA SOP: BSC-LP-IgG SOP: BSC-LP-IgM SOP: BSC-LP-Trans SOP: BSC-LP-ApoB SOP: BSC-LP-CRP
Urine/ Serum	<u>Routine biochemistry</u>	
Urine	Protein	SOP: BSC-LP-PCRUR
Urine	Microalbumin	SOP: BSC-LP-ACRU
Urine	Calcium	SOP: BSC-LP-CACRUR
Urine	Creatinine	SOP: BSC-LP-CAUR
Urine	Phosphate	SOP: BSC-LP-CUR
Urine	Potassium	SOP: BSC-LP-PhosFluid
Urine	Sodium	SOP: BSC-LP-NAKUR
Urine	Urea	SOP: BSC-LP-UreaUrine
Urine	Urate	SOP: BSC-LP-UrateUrine
Urine	Amylase	SOP: BSC-LP-Amylase
Serum	Sodium	SOP: BSC-LP-Sodium
Serum	Potassium	SOP: BSC-LP-Potassium
Serum	Chloride	SOP: BSC-LP-Cl



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HUMAN BODY FLUIDS (cont'd)	<u>Chemical Pathology examination activities for the purposes of clinical diagnosis (cont'd)</u>	Documented in-house methods based on manufacturer's operating instructions
CSF	CSF Protein Glucose Lactate	Beckman AU5812; DXC700AU Photometry cont'd SOP: BSC-LP-AU5812 SOP: BSC-LP-ReagCalPrepAU5812 SOP: BSC-LP-TPFluid SOP: BSC-LP-Glucose SOP: BSC-LP-Lactate
Serum	<u>Routine Immunoassay</u> AFP tumour marker CEA TSH FT3 FT4 Cortisol Ferritin PSA HCG LH FSH Prolactin Progesterone Testosterone SHBG Oestradiol (High Sensitive) Vitamin D Vitamin B12 Folate Anti TPO antibodies CA125 CA199 TnI (High Sensitive) PTH	Beckman Dxl 800; immunoassay SOP: BSC-LP-DXI SOP: BSC-LP-AFP SOP: BSC-LP-CEA SOP: BSC-LP-TSH SOP: BSC-LP-FT3 SOP: BSC-LP-FT4 SOP: BSC-LP-Cortisol SOP: BSC-LP-Ferritin SOP: BSC-LP-PSA SOP: BSC-LP-BHCG SOP: BSC-LP-LH SOP: BSC-LP-FSH SOP: BSC-LP-Prolactin SOP: BSC-LP-Prog SOP: BSC-LP-Test SOP: BSC-LP-SHBG SOP: BSC-LP-Oestradiol SOP: BSC-LP-VitD SOP: BSC-LP-VitaminB12 SOP: BSC-LP-Folate SOP: BSC-LP-TPO SOP: BSC-LP-CA125 SOP: BSC-LP-CA199 SOP: BSC-LP-TnI SOP: BSC-LP-PTH
Serum, Plasma: EDTA		



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HUMAN BODY FLUIDS (cont'd)	<u>Chemical Pathology examination activities for the purposes of clinical diagnosis (cont'd)</u>	Documented in-house methods based on manufacturer's operating instructions
Serum, Plasma EDTA	<u>Routine Immunoassay</u>	Roche E411; Immunoassay electrochemiluminescence
Serum,	CTX	SOP: BSC-LP-E411
	BNP	SOP: BSC-LP-E411
Serum, Urine	Osmolality	Advanced Instruments Osmo1 Micro-Osmometer; depression of freezing point SOP: BSC-LP-Osmo1
Faeces	Faecal calprotectin	DS2 Analyser; sandwich immunoassay SOP: BSC-LP-FCaIDS2
Venous whole blood: EDTA	Ketones	Freestyle Optium NEO H; electrical current change SOP: BSC-LP-Kets
CSF	Xanthochromia	Northstar BIO-UV; Spectrophotometry SOP: BSC-LP-Xanthochromia
Data	<u>Calculated Tests</u>	Beckman AU5812 and DXC700AU SOP: BSC-LP-CalcResBS
Serum	FAI	
Serum	Globulin	
Serum	LDL Cholesterol	
Urine	Calcium Creatinine Ratio	
Serum	Calculated eGFR	
Serum	Creatinine Clearance	
Serum	Corrected Calcium	
Serum	Trasferrin Saturation Ratio	
Serum	Anion Gap	
Serum	AKI	
Urine	Protein Creatinine Ratio	
Urine	Microalbumin Ration	
Blood	Determination of HbA1c	Manufacturer's instructions for TOSOH G11 HPLC analyser BSC-LP-TOSOHG11Var



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HUMAN BODY FLUIDS (cont'd)	<u>Blood Transfusion examination activities for the purpose of clinical diagnosis</u>	Documented In-house methods using:
Venous Whole Blood: red cells & plasma	Blood Group: ABO, RhD	<u>Automated</u> Ortho Vision analyser using column agglutination technology (CAT) SOP BSC-LP-B-VisionAnalysis SOP BSC-LP-B-OrthoConnect SOP BSC-LP-B-OrthoGroup
Plasma	Antibody Screen: detection of the following antibodies: Rh – C,D,E,c,e, Cw Kell – K,k,Kpa Duffy –Fya, Fyb MNS – M,N,S,s Kidd – Jka,Jkb Lewis – Lea,Leb Lutheran – Lua, Lub P – P1	<u>Automated</u> Ortho Vision analyser using CAT SOP BSC-LP-B-VisionAnalysis SOP BSC-LP-B-OrthoConnect SOP BSC-LP-B-OrthoScreen <u>Manual</u> Ortho Workstations SOP BSC-LP-B-AntibodyScreen
Plasma	Antibody Identification: Rh – C,D,E,c,e, Cw Kell – K,k,Kpa Duffy –Fya, Fyb MNS – M,N,S,s Kidd – Jka,Jkb Lewis – Lea,Leb Lutheran – Lua, Lub P – P1	<u>Manual</u> Ortho Workstations <u>Automated</u> Ortho Vision analyser using CAT SOP BSC-LP-B-VisionAnalysis SOP BSC-LP-B-OrthoConnect SOP BSC-LP-B-OrthoPanelC
Venous Whole Blood: red cells & plasma	Crossmatch	<u>Manual</u> Ortho Workstations SOP: BSC-LP-B-XMatch (IAT) <u>Automated</u> Ortho Vision analyser using CAT SOP BSC-LP-B-VisionAnalysis SOP BSC-LP-B-OrthoConnect SOP BSC-LP-B-XMatch



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HUMAN BODY FLUIDS (cont'd)	<u>Blood transfusion examination activities for the purposes of clinical diagnosis (cont'd)</u>	Documented in-house methods based on manufacturer's operating instructions
Red cells	DAT	<u>Manual</u> Ortho Workstations <u>Automated</u> Ortho Vision analyser using CAT SOP BSC-LP-B-VisionAnalysis SOP BSC-LP-B-OrthoConnect SOP BSC-LP-B-OrthoMONO
Red cells (neonatal)	Blood Group: ABO, RhD	<u>Manual</u> Ortho Workstations <u>Automated</u> Ortho Vision analyser using CAT SOP BSC-LP-B-VisionAnalysis SOP BSC-LP-B-OrthoConnect SOP BSC-LP-B-OrthoBabyGroup
Red cells	Blood Group Phenotyping: Rh (C, D, E, c, e) K	<u>Manual</u> Ortho Workstations <u>Automated</u> Ortho Vision analyser using CAT SOP BSC-LP-B-VisionAnalysis SOP BSC-LP-B-OrthoConnect SOP BSC-LP-B-RHK
Venous Whole Blood: red cells & plasma	Blood Group: ABO, RhD	<u>Manual</u> Tube technique SOP: BSC-LP-B-Group
Venous Whole Blood: red cells & plasma	Crossmatch	<u>Manual</u> Tube technique SOP: BSC-LP-B-XMatch (IS)
Venous Whole Blood: red cells	Foetal Maternal Haemorrhage (semi-quantative - screening)	<u>Manual</u> : Kleihauer based on BSH semi-quantitative screening method Guest Medical kit SOP: BSC-LP-B-FMH&Anti-D



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	<u>Haematological examination activities for the purpose of clinical diagnosis</u>	Documented in-house methods based on manufacturer's operating instructions <u>Documented in-house methods to meet the requirements of the SCT screening programme as defined in the current version of 'NHS Sickle Cell and Thalassaemia Screening Programme: laboratory quality assurance evidence requirements' *</u>
Whole Blood (EDTA)	Full Blood count*: Haemoglobin Haematocrit (Hct) Red Cell Count Nucleated RBC Mean Cell Haemoglobin (MCH) Mean Cell Haemoglobin Concentration (MCHC) Mean Cell Volume (MCV) White Cell count (WBC) Neutrophil count Monocyte count Lymphocyte count Basophil count Eosinophil count	Beckman Coulter DxH900 analyser by Coulter Principle. Haematocrit (Hct), MCH and MCHC by calculation. SOP: BSC-LP-H-DxH
Whole Blood (EDTA)	Reticulocytes	
Whole blood (EDTA)	Erythrocyte Sedimentation Rate (ESR)	Automated using StarRRsed-ST Analyser. Westergren reference method. SOP: BSC-LP-H-AutoESR
Whole blood (EDTA)	Identification of normal and abnormal morphologies including WBC differential count	Beckman Coulter slide maker (SMS). Aerospray Pro 7152 Slide Stainer / Cytocentrifuge (May Grunwald Giemsa Stain) Microscopy: May Grunwald Giemsa SOPs: BSC-LP-H-SMS; BSC-LP-H-AeroNew



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Whole blood (EDTA)	<u>Haematological examination activities for the purpose of clinical diagnosis</u> <u>Haemoglobinopathy screening quantification*</u> <u>HbA2</u> <u>HbF</u> <u>HbS</u>	Documented in-house methods based on manufacturer's operating instructions Manufacturer's instructions for TOSOH G11 HPLC analyser BSC-LP-H-TOSOHBTal
Plasma (sodium citrate)	<u>Coagulation examination activities for the purpose of clinical diagnosis</u> PT/INR APTT Fibrinogen D-Dimer Thrombin Time	Manufacturer's instructions for ACL TOP 550 analyser and documented In-house methods: Readiplastin and SOP BSC-LP-H-PT Synthasil and SOP BSC-LP-H-APTT Quantified fibrinogen assay (Q.F.A) and SOP BSC-LP-H-Fib Latex Dimer Assay HS500 and SOP BSC-LP-H-Ddimer Bovine Thrombin and SOP BSC-LP-H-TT
END		