

# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <b>8646</b>  Accredited to ISO 15189:2012	<b>Integrated Pathology Solutions LLP</b>  Issue No: 015   Issue date: 27 August 2024	
	Pathology Department Fewston Wing Harrogate District Hospital Lancaster Park Road Harrogate North Yorkshire HG2 7SX	Contact: Rebecca Parish Tel: +44 (0) 1423 555 842 E-Mail: rebecca.parish2@nhs.net Website: <a href="http://www.hdft.nhs.uk/our-services/department-service-g-z/pathology/">www.hdft.nhs.uk/our-services/department-service-g-z/pathology/</a>

Testing performed by the Organisation at the locations specified below

### Locations covered by the organisation and their relevant activities

#### Testing locations:

Location details	Activity	Location code
<b>Pathology Laboratory</b> Fewston Wing Harrogate District Hospital Lancaster Park Road Harrogate North Yorkshire HG2 7SX  <b>Local contact</b> Rebecca Parish	Biochemistry Haematology Blood Transfusion Histopathology & non-gynae cytology Microbiology	A
<b>Hospital Wards</b> <b>Address</b> Harrogate District Hospital Lancaster Park Road Harrogate North Yorkshire HG2 7SX  <b>Local contact</b> Dr Sarah Glover	Point of Care Testing Clinical Chemistry	B
<b>Hospital Wards</b> <b>Address</b> Ripon Community Hospital Firby Lane Ripon HG4 2PR  <b>Local contact</b> Dr Sarah Glover	Point of Care Testing Clinical Chemistry	C
<b>Off site Clinics:</b> <b>Address</b> Gastro Follow-up Clinic Wharfedale Hospital Newall Carr Road Otley Leeds LS21 2LY  <b>Local contact</b> Dr Sarah Glover	Point of Care Testing Clinical Chemistry	D



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Location details	Activity	Location code
<b>Off site Clinics</b> (cont'd): <b>Address</b> Surgical OP Wetherby Health Centre Hallfield Lane Wetherby Leeds LS22 6JS  <b>Address</b> Surgical OP Alwoodly Medical Centre Saxon Mount Leeds LS17 5DT  <b>Address</b> Surgical OP Yeadon Health Centre 17 South View Road Yeadon Leeds LS9 7PS	<b>Local contact</b> Dr Sarah Glover  <b>Local contact</b> Dr Sarah Glover  <b>Local contact</b> Dr Sarah Glover	Point of Care Testing Clinical Chemistry  Point of Care Testing Clinical Chemistry  Point of Care Testing Clinical Chemistry
<b>Hospital Clinics</b> <b>Address</b> Harrogate District Hospital Lancaster Park Road Harrogate North Yorkshire HG2 7SX	<b>Local contact</b> Dr Sarah Glover	Point of Care Testing Clinical Chemistry
<b>Domicillary</b> <b>Address</b> Patients homes	<b>Local contact</b> Dr Sarah Glover	Point of Care Testing Clinical Chemistry



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**Additional site activities performed at main location listed above:**

Location details	Activity
Harrogate District Hospital Lancaster Park Road Harrogate North Yorkshire HG2 7SX  On-site Mortuary and Body Store  Maternity Blood Fridge Harrogate District Hospital	Phlebotomy  Storage of bodies Record keeping (body identification and audit trail)  Blood storage only
<b>Local contact</b> Laura Baglow Transfusion Laboratory Manager	

**Site activities performed away from the main laboratory location listed above:**

Location details	Activity
BMI The Duchy Hospital Queens Road Harrogate Yorkshire HG2 0HF  Sir Robert Ogden Macmillan centre 1 Willaston Crescent Harrogate North Yorkshire HG2 7BF	Blood storage only  Blood storage only
<b>Local contact</b> Laura Baglow Transfusion Laboratory Manager	
<b>Local contact</b> Laura Baglow Transfusion Laboratory Manager	



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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>Examination activities for the purpose of clinical diagnosis</u>	In house documented methods incorporating manufacturers' instructions where relevant	A
Serum (SST)	<u>Biochemistry</u>  ALT – Alanine transaminase Albumin ALP -Alkaline Phosphatase Amylase AST- aspartate transaminase Bicarbonate Beta2-microglobulins Bile Acids Bilirubin Total Bilirubin Conjugated Calcium Chloride Cholesterol Complement 3 Complement 4 C-Reactive Protein Creatine Kinase Creatinine Digoxin Gamma GT Gentamicin Haptoglobin H.D.L. Cholesterol IgA IgM IgG Iron LDH – lactate dehydrogenase Lithium Magnesium Paracetamol Phosphate Potassium Rheumatoid Factor Salicylate Sodium Theophylline	Beckman AU 5800 by Spectrophotometry and Ion selective electrodes and SOP BS-CP-LP- AU5800	



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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>Examination activities for the purpose of clinical diagnosis</u> (cont'd)	In house documented methods incorporating manufacturers' instructions where relevant	A
Serum (SST) (cont'd)	<u>Biochemistry</u> (cont'd)  Total Protein Transferrin Triglycerides Urea Uric Acid Vancomycin	BeckmanAU 5800 by Spectrophotometry and Ion selective electrodes and SOP BS-CP-LP- AU5800	
Fluoride Oxalate	Alcohol		



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HUMAN BODY FLUIDS (cont'd)	<u>Examination activities for the purpose of clinical diagnosis</u> (cont'd)	In house documented methods incorporating manufacturers' instructions where relevant	A
Serum	<u>Biochemistry</u> (cont'd)  Alpha feto protein (AFP) Beta -hCG Cancer antigen 125 Cancer antigen 153 Cancer antigen 199 Carcinoembryonic antigen Cortisol Digoxin Ferritin Folate Freethryoxine Free triiodothyronine Follicle stimulating hormone HCG Leuteinising hormone Oestradiol Parathyroid hormone Prolactin Procalcitonin PSA SHBG TPO Troponin I Thyroid stimulating hormone Testosterone Vitamin B12 Vitamin D SARS CoV-2 antibodies	Beckman DXi 800 by Chemiluminescence and SOP BS-LP-Dxl800-OP	
Plasma Serum			



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HUMAN BODY FLUIDS (cont'd)	<u>Examination activities for the purpose of clinical diagnosis</u> (cont'd)	In house documented methods incorporating manufacturers' instructions where relevant	A
	<u>Biochemistry</u> (cont'd)	Beckman au 5800by spectrophotometry and ion selective electrodes and SOP SOP BS-CP-LP- AU5800	
Plasma	Glucose Lactate Ammonia		
Urine	Amylase Calcium Creatinine Magnesium Sodium Potassium Chloride Phosphate Protein Urea Uric acid Microalbumin		
CSF	Glucose Protein Lactate		
Serum Urine	Osmolality	Vitech 3200 suppliers method and measurement by freezing point depression CP-LP-MT-OSM	
CSF	Xanthochromia	Varian Cary 50B, suppliers method and measurement by spectrophotometry CP-LP-MT-CSFS	
Sweat	Sweat test	Sweatcheck 3120 supplier method measurement by conductivity and sherwood 926s, suppliers method measurement by colorimetry CP-LP-MT-STEST	



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HUMAN BODY FLUIDS (cont'd)	<u>Examination activities for the purpose of clinical diagnosis</u> (cont'd)	In house documented methods incorporating manufacturers' instructions where relevant	A
	<u>Biochemistry</u> (cont'd)		
Serum SST	Serum Protein Electrophoresis: Monoclonal protein band detection, identification and quantitation	Sebia Minicap, supplier method measurement by capillary electrophoresis /immunophenotyping CP-LP-MT-EPS	
Serum	Free light chains – free kappa and Lambda assays	Binding site Optilite measurement by turbidmetry and SOP BS-CP-LP-OPTILITE	
Serum SST	Monoclonal protein band identification and quantitation	Sebia Hydrasys, supplier method measurement by gel electrophoresis/Immunofixation CP-LP-MT-SFIX	
Serum SST	Alkaline Phosphatase Isoenzymes: <ul style="list-style-type: none"> <li>• Placental</li> <li>• Bone</li> <li>• Liver</li> <li>• Intestinal</li> </ul>	Sebia Hydrasys, supplier method measurement by gel electrophoresis/I Lectin binding CP-LP-MT-APIS	
Urine	Bence Jones Protein: Monoclonal protein band identification	Sebia Hydrasys, supplier method measurement by gel electrophoresis/Immunofixation CP-LP-MT-UFIX CP-LP-MT-UHR	
Whole blood EDTA	Glycated Haemoglobin	TOSOH G8 supplier method measurement by HPLC CP-LP-MT-G8	
Faeces	Quantitative measurement of Calprotectin	DiaSorin Liaison XL using chemiluminescence and SOP MB-LP-VSOPLIAISON	





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HUMAN BODY FLUIDS (cont'd)	<u>Examination activities for the purpose of clinical diagnosis (cont'd)</u>	In house documented methods incorporating manufacturers' instructions where relevant	A
Whole blood EDTA	<u>Haematology</u> White Blood Cell Count (total) Neutrophil Count Lymphocyte Count Monocyte Count Eosinophil Count Basophil Count Haemoglobin Red Cell Count Platelet Count Mean Cell Volume Reticulocyte Count Nucleated Red Cell Count	Sysmex 2100xn supplier methods and measurement by; fluorescent flow cytometry, calorimetry, light scatter, direct current and impedance HM-LP USE OF SYSMEX XN-2100	
Whole blood EDTA	Sickle Screen	Strek Sickledex suppliers method and measurement by optical reading of opacity BS-HM-LP-038	
Whole blood EDTA	Blood Films: Morphology Intra-erythrocytic Parasites	Light microscopy BS-HM-LP-035 BS-HM-LP-037	
Bone Marrow EDTA	Bone Marrow Films	BS-HM-LP-051	
EDTA plasma	Epstein-Barr Virus (EBV) antibodies (Infectious Mononucleosis screen)	Clearview IM screen suppliers method and measurement by membrane diffusion antibody reaction BS-HM-LP-036	



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HUMAN BODY FLUIDS (cont'd)	<u>Examination activities for the purpose of clinical diagnosis</u> (cont'd)	In house documented methods incorporating manufacturers' instructions where relevant	A
EDTA Blood	<u>Haematology</u> (cont'd)  Differential detection of <i>Plasmodium falciparum</i> and pan-detection of other Plasmodium species: <i>Plasmodium malariae</i> , <i>Plasmodium falciparum</i> , <i>Plasmodium ovale</i> & <i>Plasmodium vivax</i>	Apacor CareStart Malaria kit using combined HRP2/pLDH (Pan) technology BS-HM-LP-037	
EDTA whole blood	Erythrocyte Sedimentation Rate  <u>Blood Transfusion</u>	Automated using Elitech Mixrate X20 and SOP BS-HM-LP-ESR  Automated – Grifols Erytra Eflexis analysers BS-BT-LP-051 Manual – DG ther, DG spin and interfaced DG card reader BS-BT-LP-025	
Whole blood EDTA	Blood group ABO Rh D	Automated & Manual BS-BT-LP-016  Full Group: DG Gel ABO/Rh ("D") + K cards, Serigrup Diana A1 B cells BS-BT-LP-016  Confirmation Group: DG Gel Confirm P cards BS-BT-LP-016  Cord & Neonatal: DG Gel Newborns cards BS-BT-LP-013	
	Red cell antibody screen: C, E, c, e, K	Automated & Manual DG Gel Coombs AHG cards, Serascan Diana 3 screening cells BS-BT-LP-016	



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HUMAN BODY FLUIDS (cont'd)	<u>Examination activities for the purpose of clinical diagnosis</u> (cont'd)	In house documented methods incorporating manufacturers' instructions where relevant	A
	<u>Blood Transfusion</u> (cont'd)	Automated – Grifols Erytra Eflexis analysers BS-BT-LP-051 Manual - Erytra card incubator, card centrifuge and interfaced DG card reader BS-BT-LP-025	A
	Extended Rh phenotyping: C, c, E, e	Automated & Manual DG Gel Rh Pheno cards BS-BT-LP-016	
	Red cell antibody identification C, E, c, e, K	Automated & Manual DG Gel Coombs AHG cards, DG Gel Neutral, Identisera Diana panel cells & Identisera Diana P enzyme panel cells BS-BT-LP-025 BS-BT-LP-030	
	Crossmatch	Automated & Manual DG Gel Coombs AHG cards BS-BT-LP-011	
	Direct Antiglobulin test	Automated & Manual DG Gel Coombs AHG cards BS-BT-LP-009	
	Monospecific Direct Antiglobulin test;	Manual DG Gel Scan mono DAT cards BS-BT-LP-009	
Whole blood EDTA	Kleihauer estimation of Foetal/Maternal haemorrhage (FMH) via count of foetal cells in maternal blood film/calculation of total bleed (ml) Screen only performed	Guest Medical FMH kit suppliers method and detection by microscopy following alkali denaturation to detect foetal cells and calculation of bleed. Screen only BS-BT-LP-035	



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HUMAN BODY FLUIDS (cont'd)	<u>Examination activities for the purpose of clinical diagnosis</u> (cont'd)	In house documented methods incorporating manufacturers' instructions where relevant	A
	<u>Coagulation examination activities for the purpose of clinical diagnosis</u>		
	Blood coagulation	Werfen ACL TOPS 550	
Citrated Plasma	Prothrombin time INR Activated	BS-HM-LP-ACL01	
Citrated Plasma	Clauss Fibrinogen Thrombin Time Anti-Xa assays (Low molecular weight heparin, Apixaban, Rivaroxaban) D-Dimer	BS-HM-LP-ACL01	



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<p><b>HUMAN BODY FLUIDS AND TISSUES</b></p> <p>Swabs (nasal, wound, neonatal, throat, mouth, genital, eye, ear, superficial wounds &amp; skin), corneal scrapings, sputum, pleural fluid, bronchoalveolar samples, urine, tissues and biopsies, CSF, synovial fluids, fluids from normally sterile sites, intravascular cannulae</p>	<p><u>Microbiology examination activities for the purpose of clinical diagnosis</u></p> <p>General isolation and characterisation of micro-organisms of clinical significance</p>	<p>In house documented methods following related PHE Standards for Microbiology Investigations (SMIs) and incorporating manufacturers' instructions where relevant</p> <p>Manual culture, Nasal swabs MB-LP-BSOP5 Pus and exudate MB-LP-BSOP14 Throat swabs MB-LP-BSOP9 Mouth swabs MB-LP-BSOP4 Pernasal swabs MB-LP-BSOP6 Bile MB-LP_SOP15</p> <p>Bacterial Eye infections MB- MB-LP-BSOP2 Ear swabs MB-LP-BSOP1 Superficial wounds and skin MB-LP-BSOP11</p> <p>Using manual culture, Investigation of sputum, pleural fluid, BAL &amp; associated specimens MB-LP-BSOP57 Investigation of Urine MB-LP-BSOP41</p> <p>Investigation of tissues and biopsies MB-LP-BSOP17 MB-LP-BSOP42 Investigation of bone &amp; soft tissue associated with osteomyelitis; Investigation of orthopadeic implant associated infections MB-LP-BSOP44; Investigation of CSF MB-LP-BSOP27; Investigation of Fluids from Normally Sterile Sites MB-LP-BSOP 26; Investigation of Intravascular cannulae MB-LP-BSOP122</p>	A
<p>Genital swabs</p>	<p>General isolation and characterisation of micro-organisms of clinical significance</p>	<p>Investigation of Genital swabs and associated specimens MB-LP-BSOP28</p>	



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Microbiology examination activities for the purpose of clinical diagnosis</u> (cont'd)	In house documented methods following related PHE Standards for Microbiology Investigations (SMIs) and incorporating manufacturers' instructions where relevant	A
Faeces	Diagnosis of Bacterial vaginosis	Using HAYS criteria by Gram staining microscopy MB-LP-BSOP28	
Whole blood	Isolation and characterisation bacterial pathogens: <i>Salmonella</i> sp. <i>Shigella</i> spp. <i>Campylobacter</i> spp. <i>Escherichia coli</i> O157 <i>Vibrio</i> spp. <i>Yersinia</i> spp.	Manual culture Investigation of faeces for pathogens MB-LP-BSOP30	
Bacterial culture isolates produced by the laboratory	Detection of microbial growth and general isolation and characterisation of micro-organisms of clinical significance	Liquid culture using Bactec Fx Investigation of blood cultures MB-LP-BSOP37; Operation of the Bactec Fx instrument MB-LP-BSOP147	
	Antibiotic susceptibility testing (including screening for ESBL and other multi resistant organisms)	EUCAST (manual disc diffusion) MB-LP-BSOP45, Antimicrobial susceptibility testing MB-LI-BGESBL Laboratory detection of multiclass resistance, ESBL and AmpC beta lactamases	



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<p>HUMAN BODY FLUIDS AND TISSUES (cont'd)</p> <p>Bacterial and fungal culture isolates produced by the laboratory</p>	<p><u>Microbiology examination activities for the purpose of clinical diagnosis</u> (cont'd)</p> <p>Identification of micro-organisms of clinical significance</p>	<p>In house documented methods following related PHE Standards for Microbiology Investigations (SMIs) and incorporating manufacturers' instructions where relevant</p> <p>API kits (including API 20E, NE, NH, CORNE, 20 Strep, rapid 32, Strep, rapid 32A Anaerobe MB-LP-BSOFTP62 Catalase test MB-LP-BSOFTP8 coagulase test (including Prolex staph latex) MB-LP-BSOFTP10 DNase test MB-LP-BSOFTP12 oxidase tests MB-LP-BSOFTP26 staining/microscopy MB-LP-BSOP109 Germ tube test MB-LP-BSOFTP51 Prolex Streptococcal Grouping kit MB-LP-BSOFTP52 Urease test MB-LP-BSOFTP61 MB-LP-BSOFTP3; Optochin / Bile solubility test MB-LP-BSOFTP25; X and V Factor Determination MB-LP-BSOFTP38; ID of Moraxella catarrhalis by butyrate discs MB-LP-BSOFTP55; Detection of Beta-Lactamase by Nitrocefin MB-LP-BSOFTP56</p> <p>Supporting bacterial identification SOPs:</p> <p>MB-LP-BSOPID 2, 3, 4, 5, 6, 7, 8, 11, 12, 13, 14, 16, 17, 18, 20, 21, 22, 24, 25, 26 &amp; 27</p>	A



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Microbiology examination activities for the purpose of clinical diagnosis</u> (cont'd)	In house documented methods following related PHE Standards for Microbiology Investigations (SMIs) and incorporating manufacturers' instructions where relevant	A
Nose swabs	Isolation of MRSA	Manual chromogenic culture MRSA screening swabs MB-LP-BSOP29	
Urine	Detection and quantification of red cells, white cells, epithelial cells, bacteria and yeasts	UF5000 by flow cytometry Investigation of urine MB-LP-BSOP41 MB-LP-BSOP148  Manual using Kova slides MB-LP-BSOP41 MB-LI-BGurine MB-LI-BSOP41 MB-LI-BGUF5000	
CSF	Detection, identification and quantification (inc. differential) of: White blood cells Red blood cells Bacterial and fungal cells	Microscopy (stained and unstained, inc. Gram and differential) MB-LP-BSOP27	
Synovial fluid	Presence of crystals	Microscopy MB-LP-BSOP26	
Sputum, Pleural fluid, bronchoalveolar samples (urgent samples only)	Screening for acid-alcohol fast bacilli	Microscopy (urgent only) using auramine stains Investigation of Specimens for Mycobacterium sp MB-LP-BSOP40 Staining Procedures MB-LP-BSOP109  Manual immunochromatographic membrane assays:	
Urine	Detection of <i>Legionella pneumophila</i> serotype 1 antigen	Binax Now kit by Alere MB-LP-VSOP 5	





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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Microbiology examination activities for the purpose of clinical diagnosis</u> (cont'd)	In house documented methods following related PHE Standards for Microbiology Investigations (SMIs) and incorporating manufacturers' instructions where relevant	A
Urine & CSF	Detection of pneumococcal soluble Antigen	Binax Now kit by Alere MB-LP-VSOP 6	
Faeces	Detection of <i>Clostridium difficile</i> GDH antigen	Techlab C Diff Chek kit by Alere MB-LP-BSOPTP66	
Faeces	Rota/Adenovirus antigen detection	GastroVir strip by Coris MB-LI-BSOP30A	
Urines and genital swabs	Detection of <i>Chlamydia trachomatis</i> and <i>Neisseria gonorrhoea</i> rRNA	Hologic Panther Aptima Combo 2 assay Molecular: transcription – mediated amplification of the RNA target detected by hybridisation and real time fluorescence MB-LP-MSOP3	
nasopharyngeal, nose/throat swabs in viral transport media (VTM)	Detectection of SARS CoV-2 virus RNA (COVID-19) specific gene sequences ORF1ab gene	Hologic Panther and transcription mediated amplification (TMA) and dual kinetic assay using Aptima SARS-CoV-2 assay MB-LP-MSOP4	A
Faeces	Detection of organisms carrying Carbapenase enzyme (CPE) C. difficile toxin B gene	Cepheid GeneXpert using real time PCR MB-LP-BSOP67	
nasopharyngeal, nose/throat swabs in viral transport media (VTM)	Detectection of SARS CoV-2 virus RNA (COVID-19) specific gene sequences e, N2	Cepheid Gene Xpert and realtime PCR Xpert Xpress SARS-CoV-2 assay MB-LP-BSOP67	A
Nasal, throat and nasopharyngeal and mid-turbinate swab, nasal wash and aspirates	Qualitative detection and differentiation of: Qualitative detection and differentiation of: SARS-CoV-2 Influenza A Influenza B RSV	MB-LP-BSOP149	



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Nasopharyngeal swab	Qualitative detection and differentiation of:  SARS-CoV-2  Influenza A  Influenza B  RSV	BioFire Film Array Torch multiplex PCR technology analyser  MB-LP-BSOP149	
Serum	<u>Serological examination activities for the purpose of clinical diagnosis</u>  Hep A IgM Hep B antibody Hep B surface antigen* Hep C antibody HIV-1 antibodies, HIV-1 p24 antigen and HIV-2 antibodies* Rubella IgG Treponema pallidum antibodies* VZV IgG Measles IgG Toxoplasma IgG & IgM Borrelia IgG & IgM CMV IgM EBV IgM Hepatitis B core antibody Parvovirus IgG & IgM	Documented -in-house methods to meet the requirements of the Infectious diseases in pregnancy (IDPS) screening programme(s) as defined in the July 2018 Infectious diseases in pregnancy screening: laboratory QA evidence requirements (tests marked *)  DiaSorin Liaison XL using chemiluminescence  MB-LP-VSOPLIAISON	A
Faeces	Qualitative determination of <i>Clostridium difficile</i> toxins A & B	MB-LP-VSOPLIAISON	



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**Integrated Pathology Solutions LLP**  
**Issue No: 015    Issue date: 27 August 2024**

**Testing performed by the Organisation at the locations specified**

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location code
HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Parasitology examination activities for the purpose of clinical diagnosis</u>	In house documented methods incorporating manufacturers' instructions where relevant	A
Faeces	Isolation and identification of faecal ova, cysts and parasites.	Concentration method and microscopy MB-LP-BSOP31	
	<u>Mycology examination activities for the purpose of clinical diagnosis</u>	In house documented methods incorporating manufacturers' instructions where relevant	A
Hair, skin and nails	Examination for superficial mycoses	Manual culture MB-LP-BSOP39 Potassium hydroxide test & microscopy	
	<u>Examination in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis</u>	Macroscopic and Microscopic examination: Documented in house methods incorporating manufacturers' instructions where relevant:	A
Fine Needle Aspirations, Sputa, Bronchial Washings, Bronchial Brushings, Urines, Joint, Cyst And Serous Fluids, Serous Effusions	<u>Cytopathology</u>	Centrifugation: Thermo Scientific Sorvall ST8 centrifuge Thermo Fisher cytospin 4 HP-LP-013	
	Staining for the purposes of:	Automated staining using Leica Histocore Spectra ST autostainer Papanicalou Stain H&E	
	Acid mucins	Alcian blue	
	Mucins	AB/PAS for mucins	
	Glycogen	Pas Technique (+/- diastase digestion)	
	Cell differentiation Morphology	Manual staining: Giemsa Rapid Diff method	
	Microorganisms	HP-LP-013	



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<p>HUMAN BODY FLUIDS AND TISSUES (cont'd)</p> <p>Slides prepared in house as above</p> <p>Tissue samples</p>	<p><u>Examination in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis</u> (cont'd)</p> <p><u>Cytopathology</u> (cont'd)</p> <p>Morphological assessment and interpretation/diagnosis</p> <p><u>Histopathology</u></p> <p>Routine staining for identification of basophilic and eosinophilic structures</p>	<p>Macroscopic and Microscopic examination: Documented in house methods incorporating manufacturers' instructions where relevant:</p> <p>Microscopy HP-LP-021</p> <p>Specimen dissection HP-LP-004 HP-LP-027</p> <p>Decalcification Of Calcified Specimens HP-LP-006</p> <p>Tissue processing Leica Histocore Peloris 3 HP-LP-007</p> <p>Embedding Leica Histocore Arcadia H&amp;C HP-LP-008</p> <p>Microtomy Leica AS microtomes HP-LP-009</p> <p>Frozen section and intra operative procedures Leica CM1860 UV cryostat HP-LP-012</p> <p>Leica Cerebro sample tracking system</p> <p>Haematoxylin and Eosin stain Automated: Leica Histocore Spectra ST automated stainer HP-LP-010</p> <p>Leica Histocore Spectra CV automated coverslipper</p>	A



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Examination in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis</u> (cont'd)	Macroscopic and Microscopic examination: Documented in house methods incorporating manufacturers' instructions where relevant:	A
Tissue samples (cont'd)	<u>Histopathology</u> (cont'd)		
	Special staining to identify the following:	Special stains Manual: HP-LP-042	
	Amyloid	Congo Red	
	Elastic fibres	Elastic Van Gieson/H&E	
	Reticulin fibres	Reticulin Stain	
	Bacteria	Gram Stain	
	Fungi	Grocott Methanamine Silver	
	Fibrin	Martius Scarlet Blue technique	
	Melanin	Masson Fontana	
	Connective tissue	Masson Trichrome	
	Ferric iron	Perl's Prussian Blue reaction	
	Mast cells	Toluidine Blue method	
	Special staining to identify the following:	Special stains Manual: HP-LP-042	
	Connective tissue	Haematoxylin Van Gieson technique	
	Acid fast bacilli	Ziehl-Neelsen stain	



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HUMAN BODY TISSUE AND FLUIDS (cont'd)	<u>Examination in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis</u> (cont'd)	Macroscopic and Microscopic examination: Documented in house methods incorporating manufacturers' instructions where relevant:	A
Tissue samples and cell blocks	<u>Histopathology</u> (cont'd)		
	Immunohistochemistry for the identification of:	Immunohisto/cytochemical staining Automated Ventana Benchmark Ultra HP-LP-011 & HP-LP-035	
	Normal & Abnormal epithelial cells	AE1/3	
	Epithelial cell types	BER-EP4	
	Malignant ovarian epithelial cells, seminal vesical carcinoma & anaplastic lymphoma	CA125	
	Leucocyte differentiation	CD56	
	GI Tract tumours	CDX2	
	Normal & Abnormal epithelial lineage	CEA	
	Tissues of neuroendocrine origin	CHROMOGRANIN A	
	Mesothelioma, prostate carcinoma	CK5/6	
	Normal and neoplastic epithelia	CK7	
	Squamous cell carcinomas, metaplastic carcinomas of the breast	CK14	
	Gastric and intestinal epithelium, urothelium and Merkel Cells	CK20	
	Normal duct epithelial cells, ductal carcinoma	E-CADHERIN	



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HUMAN BODY TISSUE AND FLUIDS (cont'd)	<u>Examination in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis</u> (cont'd)	Macroscopic and Microscopic examination: Documented in house methods incorporating manufacturers' instructions where relevant:	A
Tissue samples and cell blocks (cont'd)	<u>Histopathology</u> (cont'd)		
	Immunohistochemistry for the identification of: (cont'd)	Immunohisto/cytochemical staining Automated Ventana Benchmark Ultra HP-LP-011& HP-LP-035	
	Luminal epithelial cells of breast and urothelial carcinoma	GATA-3	
	P53 mutations in neoplastic cells neoplastic cells in epithelium	P53	
	Tumour types including thyroid, renal cell and ovarian serous carcinomas	PAX-8	
	Nuclei of cells showing expression of progesterone	PR antibodies	
	Many carcinomas – normal and neoplastic cells from various tissues	EMA	
	Estrogen Receptor antigen	ESTROGEN RECEPTOR	
	Breast Carcinoma	GCDFP-15	
	Classification of melanomas	HMB45	
	Leucocytes	CD45 (LCA)	
	Primary and metastatic malignant melanoma	MELAN A	
	HPV infection in dysplastic squamous epithelium	P16	



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location code
HUMAN BODY TISSUE AND FLUIDS (cont'd)	<u>Examination in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis</u> (cont'd)	Macroscopic and Microscopic examination: Documented in house methods incorporating manufacturers' instructions where relevant:	A
Tissue samples and cell blocks (cont'd)	<u>Histopathology</u> (cont'd)		
	Immunohistochemistry for the identification of: (cont'd)	Immunohisto/cytochemical staining Automated Ventana Benchmark Ultra HP-LP-011& HP-LP-035	
	Benign and malignant prostatic or breast lesions, differentiation of lung squamous cell carcinoma and lung adenocarcinoma	P63	
	Prostate secretory and ductal epithelium	PSA	
	Melanomas, neural cells	S100	
	Smooth Muscle Cells	SMA	
	Visceral and vascular smooth muscle cells, myoepithelial cells	SMM	
	Melanoma subtypes	SO	
	Neoplasms of lung and thyroid, mesothelioma	TTF1	
	Wilm's Tumour	WT1	
	Detection of H.pylori	H.pylori	





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HUMAN BODY TISSUE AND FLUIDS (cont'd)	<u>Provision of Point of Care testing in accordance with ISO 22870: 2016 related to the following:</u>	In house documented methods incorporating manufacturers' instructions where relevant	
Whole blood	Blood Gas and associated tests: Blood Gases (pH, pCO <sub>2</sub> and pO <sub>2</sub> ) Electrolytes (Na <sup>+</sup> , K <sup>+</sup> , Ca <sup>2+</sup> ) Co-oximetry (O <sub>2</sub> Hb, COHb, MetHb) Glucose, lactate, haematocrit (Hct), total Hb (tHb) bilirubin	Werfen Gem 5000 Blood Gas analyser BS-PC-LP-023	B
Whole blood	Glucose/Ketones (inclusive of sampling)	Abbott Freestyle Precision Pro BS-PC-LP-005	B, C, D
Whole blood	HbA1C (inclusive of sampling)	Abbott Afinion 2 BS-PC-LP-009	E
Urine	Screen: blood, glucose, ketone, protein, SG, pH, urobilinogen, bilirubin, ascorbic acid, nitrites and leucocytes (inclusive of sampling)	Sterilab BS-Urilyzer 100 Pro/Urine dipstick PC-LP-013	B, C, D
Whole blood	Blood Gas and associated tests: Blood Gases (pH, pCO <sub>2</sub> and pO <sub>2</sub> ), glucose, lactate	EPOC PC-LP-012	F
Capillary and venous blood sample	Haemoglobin	Radiometer Hemacue (modified azide-methemoglobin reaction measurement) BS-PC-LP-024	B

**(See Appendix 1 for details of accredited examinations at location types B - G)**

END



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**Appendix 1**

<b>B Harrogate Hospital Wards</b>	<b>Glucose / Ketones</b>	<b>Urine Dipstick</b>	<b>Blood Gas</b>	<b>Haemoglobin</b>
A&E	x	x	x	
Fountains Ward -medical Short Stay MSS	x	x		
ANC	x	x		
Byland Ward	x			
CAT Clinic (SDEC)	x	x		
Cardiac Rehab Nurses ( above Farndale)	x			
Medical Assessment Unit MAU Farndale Ward	x	x	x (Gas, electrolytes, co-oximetry, glucose, lactate, Hct, tHb)	
Clinical Investigations		x		
Day Surgery /DS Recovery /Eye pre Assessment / Ophthalmology	x	x		
Diabetes centre	x			
Elmwood	x	x		
Endoscopy	x			
Farndale	x	x		
Granby	x	x		
Harlow Ward	x	x		
Heart Centre	x			
ITU	x	x	x (Gas, electrolytes, glucose, lactate, tHb, Hct)	
Jervaulx	x			
Labour Ward	x	x	x (Gas, tHb, Hct)	
Lascelles Neuro rehabilitation Unit	x	x		
Littondale Ward	x	x		
MDU / Dermatology	x	x		
Nidderdale Ward	x	x		
Oakdale Ward	x	x		
OPD inc. Eye Clinic	x			
OPD1		x		
OPD2		x		
Pannal Ward	x	x		
Phoenix Unit	x			
Podiatry	x			
Pre-Assessment Unit	x	x		
Radiology	x			
Recovery (theatres)	x			x



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<b>B Harrogate Hospital Wards</b>	<b>Glucose / Ketones</b>	<b>Urine Dipstick</b>	<b>Blood Gas</b>	<b>Haemoglobin</b>
Resus			x (Gas, electrolytes, co-oximetry, glucose, lactate, Hct, tHb)	
Resuscitation Training	x			
SCBU	x		x (Gas, electrolytes, glucose, lactate, tHb, Hct)	
SROMC Unit	x	x		
Elective Admissions	x			
Wensleydale ward	x	x		
Woodlands	x	x		

<b>C Ripon Hospital Wards</b>	<b>Glucose / Ketones</b>	<b>Urine Dipstick</b>
Minor Injuries Unit	x	x
Ripon OPD		x
Trinity Ward	x	

<b>D Off Site Clinics</b>	<b>Glucose/ Ketones</b>	<b>Urine Dipstick</b>
	x	
Outpatient clinic, Wetherby Health Centre		x
Outpatient clinic, Alwoodley Medical Centre		x
Outpatient clinic, Yeadon Health Centre		x

<b>E Harrogate Hospital Clinics</b>	<b>HbA1c</b>
Diabetes centre	x
Paediatric OP	x

<b>F Domicillary</b>	<b>EPOC</b>
Patient homes	x

<b>G Harrogate Hospital</b>	<b>Haemoglobin</b>
Emergency department	x