

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

| | | |
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|  <p>UKAS MEDICAL</p> <p>8646</p> <p>Accredited to ISO 15189:2022</p> | <p>Integrated Pathology Solutions LLP</p> <p>Issue No: 018 Issue date: 23 July 2025</p> | |
| | <p>Pathology Department Fewston Wing Harrogate District Hospital Lancaster Park Road Harrogate North Yorkshire HG2 7SX</p> | <p>Contact: Rebecca Parish Tel: +44 (0) 1423 555 842 E-Mail: rebecca.parish2@nhs.net Website: www.hdff.nhs.uk/our-services/department-service-g-z/pathology/</p> |
| <p>Testing performed by the Organisation at the locations specified below</p> | | |

Locations covered by the organisation and their relevant activities

Testing locations:

| Location details | Activity | Location code |
|---|--|---------------|
| <p>Pathology Laboratory Fewston Wing Harrogate District Hospital Lancaster Park Road Harrogate North Yorkshire HG2 7SX</p> <p style="text-align: right;">Local contact Rebecca Parish</p> | <p>Biochemistry Haematology Blood Transfusion Histopathology & non-gynae cytology Microbiology</p> | A |
| <p>Hospital Wards Address Harrogate District Hospital Lancaster Park Road Harrogate North Yorkshire HG2 7SX</p> <p style="text-align: right;">Local contact Dr Sarah Glover</p> | <p>Point of Care Testing Clinical Chemistry</p> | B |
| <p>Hospital Wards Address Ripon Community Hospital Firby Lane Ripon HG4 2PR</p> <p style="text-align: right;">Local contact Dr Sarah Glover</p> | <p>Point of Care Testing Clinical Chemistry</p> | C |



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



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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 | Phlebotomy |
| On-site Mortuary and Body Store | Storage of bodies Record keeping (body identification and audit trail) |
| Maternity Blood Fridge Harrogate District Hospital | Blood storage only |
| Local contact Paula Mitchell 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 | Blood storage only |
| Local contact Paula Mitchell Transfusion Laboratory Manager | |
| Sir Robert Ogden Macmillan centre 1 Willaston Crescent Harrogate North Yorkshire HG2 7BF | Blood storage only |
| Local contact Paula Mitchell 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 Serum (SST) | <u>Examination activities for the purpose of clinical diagnosis</u> <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 | In house documented methods incorporating manufacturers' instructions where relevant Beckman AU 5800 by Spectrophotometry and Ion selective electrodes and SOP BS-CP-LP- AU5800 | A |



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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 (SST) (cont'd) | <u>Biochemistry</u> (cont'd) Total Protein Triglycerides Urea Uric Acid Vancomycin | BeckmanAU 5800 by Spectrophotometry and Ion selective electrodes and SOP BS-CP-LP- AU5800 | |
| Fluoride Oxalate | Alcohol | | |
| Serum | Alpha feto protein (AFP) Beta -hCG Cancer antigen 125 Cancer antigen 153 Cancer antigen 199 Carcinoembryonic antigen Cortisol Digoxin Ferritin Folate Free thyroxine Free triiodothyronine Follicle stimulating hormone | Beckman DXi 800 by Chemiluminescence and SOP BS-LP-Dxi800-OP | |
| Plasma Serum | Leuteinising hormone Oestradiol Parathyroid hormone Prolactin Procalcitonin PSA SHBG TPO Troponin I Thyroid stimulating hormone Testosterone Vitamin B12 Vitamin D | | |
| | | | |



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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"> • Placental • Bone • Liver • Intestinal | Sebia Hydrasys, supplier method measurement by gel electrophoresis/ 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 |
| | <u>Haematology</u> | | |
| Whole blood EDTA | 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 XN 1000 supplier methods and measurement by; fluorescent flow cytometry, calorimetry, light scatter, direct current and impedance HM-LP USE OF SYSMEX XN-1000 | |
| 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-MP BS-HM-LP-FILM | |
| 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-IM | |
| EDTA Blood | 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 Care Malaria kit using combined HRP2/pLDH (Pan) technology BS-HM-LP-MP | |



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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 whole blood | <u>Haematology</u> (cont'd) Erythrocyte Sedimentation Rate | Automated using Elitech Mixrate X20 and SOP BS-HM-LP-ESR | |
| | <u>Blood Transfusion</u> | 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 BS-BT-LP-016 Manual BS-BT-LP-106 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-015 | |
| | Red cell antibody screen: C, E, c, e, K | Automated & Manual DG Gel Coombs AHG cards, Serascan Diana 3 screening cells BS-BT-LP-052 | |
| | 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-107 BS-BT-LP-106 | |



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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-106APPI | A |
| | Crossmatch | Automated & Manual DG Gel Coombs AHG cards BS-BT-LP-112 BS-BT-LP-113 | |
| | Direct Antiglobulin test | Automated & Manual DG Gel Coombs AHG cards BS-BT-LP-112 | |
| Whole blood EDTA | Monospecific Direct Antiglobulin test; | Manual DG Gel Scan mono DAT cards BS-BT-LP-112 | |
| | 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-108 | |
| Citrated Plasma | <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>HUMAN BODY FLUIDS AND TISSUES</p> <p>Swabs (nasal, wound, neonatal, throat, mouth, genital, eye, ear, superficial wounds & 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 & 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 & soft tissue associated with osteomyelitis; Investigation of orthopaedic 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 (cont'd)</u></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 Agglutination test 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 & 27</p> | <p>A</p> |



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| HUMAN BODY FLUIDS AND TISSUES (cont'd) | <u>Microbiology examination activities for the purpose of clinical diagnosis (cont'd)</u> | 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 | |
| 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 | |
| Urine | Detection of <i>Legionella pneumophila</i> serotype 1 antigen | Binax Now kit by Alere MB-LP-VSOP 5 | |
| 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-BSOFTP66 | |
| Faeces | Rota/Adenovirus antigen detection | GastroVir strip by Coris MB-LI-BSOP30A | |
| Faeces | Detection of organisms carrying Carbapenase enzyme (CPE) C. difficile toxin B gene | Cepheid GeneXpert using real time PCR MB-LP-BSOP67 | |



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| HUMAN BODY FLUIDS AND TISSUES (cont'd) | <u>Microbiology examination activities for the purpose of clinical diagnosis (cont'd)</u> | In house documented methods following related PHE Standards for Microbiology Investigations (SMIs) and incorporating manufacturers' instructions where relevant | A |
| Nasopharyngeal, nose/throat swabs in viral transport media (VTM) | Detection 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 | |
| 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 | |



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| HUMAN BODY FLUIDS AND TISSUES (cont'd) | <u>Serological examination activities for the purpose of clinical diagnosis</u> | 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 *) | A |
| Serum | 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 Hepatitis B core antibody | DiaSorin Liaison XL using chemiluminescence MB-LP-VSOPLIAISON | |
| Faeces | Qualitative determination of <i>Clostridium difficile</i> toxins A & B | MB-LP-VSOPLIAISON | |
| Faeces | <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 | |
| Hair, skin and nails | <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 | |



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| <p>HUMAN BODY FLUIDS AND TISSUES (cont'd)</p> <p>Fine Needle Aspirations, Sputa, Bronchial Washings, Bronchial Brushings, Urines, Joint, Cyst And Serous Fluids, Serous Effusions</p> <p>Slides prepared in house as above</p> | <p><u>Examination in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis</u></p> <p><u>Cytopathology</u></p> <p>Staining for the purposes of:</p> <p>Acid mucins</p> <p>Mucins</p> <p>Glycogen</p> <p>Cell differentiation Morphology</p> <p>Microorganisms</p> <p>Morphological assessment and interpretation/diagnosis</p> | <p>Macroscopic and Microscopic examination: Documented in house methods incorporating manufacturers' instructions where relevant:</p> <p>Centrifugation: Thermo Scientific Sorvall ST8 centrifuge Thermo Fisher cytospin 4 HP-LP-013</p> <p>Automated staining using Leica Histocore Spectra ST autostainer Papanicolaou Stain H&E</p> <p>Alcian blue</p> <p>AB/PAS for mucins</p> <p>Pas Technique (+/- diastase digestion)</p> <p>Manual staining: Giemsa Rapid Diff method</p> <p>HP-LP-013</p> <p>Microscopy HP-LP-021</p> | <p>A</p> |



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Issue No: 018 Issue date: 23 July 2025

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 |
|---|---|---|---------------|
| <p>HUMAN BODY FLUIDS AND TISSUES (cont'd)</p> <p>Tissue samples</p> | <p><u>Examination in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd)</u></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>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&C HP-LP-008</p> <p>Microtomy Leica AS microtomes HP-LP-009</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> | <p>A</p> |



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



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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) | | |
| | Immunochemistry for the identification of: | Immunohisto/cytochemical staining Automated Ventana Benchmark Ultra Plus 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) | | |
| | Immunochemistry for the identification of: (cont'd) | Immunohisto/cytochemical staining Automated Ventana Benchmark Ultra Plus 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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|---|--|---|---------------|
| 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) | | |
| | Immunochemistry for the identification of: (cont'd) | Immunohisto/cytochemical staining Automated Ventana Benchmark Ultra Plus 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 | SOX-10 | |
| | 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) | Provision of Point of Care testing related to the following: | In house documented methods incorporating manufacturers' instructions where relevant | |
| Whole blood | Blood Gas and associated tests: Blood Gases (pH, pCO ₂ and pO ₂) Electrolytes (Na ⁺ , K ⁺ , Ca ²⁺) Co-oximetry (O ₂ Hb, COHb, MetHb, saturated O ₂) 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 PC-LP-005 | B, C, D |
| Whole blood | HbA1C (inclusive of sampling) | Abbott Afinion 2 LPC-LP-009 | E |
| Urine | Screen: blood, glucose, ketone, protein, SG, pH, urobiligen, bilirubin, ascorbic acid, nitrites and leucocytes (inclusive of sampling) | Sterilab BS-Urilyzer 100 Pro/Urine dipstick PC-LP-013 | B, C, D |
| Lithium/heparin capillary and arterial blood | Blood Gas and associated tests: Blood Gases (pH, pCO ₂ and pO ₂), glucose, lactate | Abbot iSTAT Alinity using G3 cartridge 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 Harrogate Hospital Wards | Glucose / Ketones | Urine Dipstick | Blood Gas | Haemoglobin |
|---|--------------------------|-----------------------|---|--------------------|
| 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) | |
| Lascalles 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 Harrogate Hospital Wards | Glucose / Ketones | Urine Dipstick | Blood Gas | Haemoglobin |
|-----------------------------------|--------------------------|-----------------------|--|--------------------|
| 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 | | |

| C Ripon Hospital Wards | Glucose / Ketones | Urine Dipstick |
|-------------------------------|--------------------------|-----------------------|
| Minor Injuries Unit | x | x |
| Ripon OPD | | x |
| Trinity Ward | x | |

| D Off Site Clinics | Urine Dipstick |
|---|-----------------------|
| Outpatient clinic, Wetherby Health Centre | x |
| Outpatient clinic, Alwoodley Medical Centre | x |
| Outpatient clinic, Yeadon Health Centre | x |

| E Harrogate Hospital Clinics | HbA1c |
|-------------------------------------|--------------|
| Diabetes centre | x |
| Paediatric OP | x |

| F Domicillary | Abbott iStat |
|------------------------------------|---------------------|
| Patient homes | x |
| Respiratory outpatients Clinic HGH | x |

| G Harrogate Hospital | Haemoglobin |
|-----------------------------|--------------------|
| Theatres | x |