Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

7880

Accredited to ISO 15189:2022

IPP Analytics Limited trading as SYNLAB Essex

Issue No: 027 **Issue date:** 01 October 2026

Pathology Department **Dobson House** **Bentalls** **Basildon** **SS14 3BY**	**Contact: Katie Stewart-Byrne** **Tel: +44 (0) 7741 904258** **E-Mail: Katie.Stewart-Byrne@synlab.co.uk**

Testing performed by the Organisation at the locations specified below

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details		Activity	Location code
Address Pathology Department Hub Laboratory Dobson House Bentalls Basildon Essex SS14 3BY	**Local contact** Yvonne Thurston (Microbiology) Email: Yvonne.Thurston@synlab.co.uk Teresa Green (Blood Sciences) Email: Teresa.Green@synlab.co.uk Tel: 01268 968227	Microbiology Blood Sciences Immunology	HUB
Pathology Department Basildon University Hospital Nethermayne Basildon Essex SS16 5NL	Yvonne Thurston (Microbiology) Email: Yvonne.Thurston@synlab.co.uk Teresa Green (Blood Sciences) Email Teresa.Green@synlab.co.uk Tomos Saunders (Cellular Pathology) E-mail: tomos.saunders@synlab.co.uk Tel: 01268 524900 (ext. 8888)	Microbiology (BD BACTEC FX automated primary culture only) Blood Sciences including Blood Transfusion Histopathology Non gynae Cytology Frozen Section for intraoperative diagnosis. Storage and issue of blood and FFP	BUH
Pathology Department Southend Hospital 2nd Floor Prittlewell Wing. Southend University Hospital Prittlewell Chase Westcliff on Sea SS0 0RY	Yvonne Thurston (Microbiology) Email: Yvonne.Thurston@synlab.co.uk Teresa Green (Blood Sciences) Email: Teresa.Green@synlab.co.uk Tomos Saunders (Cellular Pathology) E-mail: tomos.saunders@synlab.co.uk Tel: 01702 435555 (ext. 6630)	Microbiology (BD BACTEC FX automated primary culture only) Blood Sciences including Blood Transfusion Histopathology Frozen Section for intraoperative diagnosis. Andrology Storage and issue of blood and FFP	SUH

7880 Accredited to ISO 15189:2022	**Schedule of Accreditation** **issued by** **United Kingdom Accreditation Service** 2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK **IPP Analytics Limited trading as SYNLAB Essex** **Issue No:** 027 **Issue date:** 01 October 2026

Testing performed by the Organisation at the locations specified

Site activities performed away from the locations listed above:

Location details		**Activity**
Address: Cardio Thoracic Centre (CTC) Basildon Hospital (BUH) Nethermayne Basildon SS16 5NL	**Local Contact** Jenine Yearwood Tel: +44(0)1268 524900 (ext:5076) Email: Jenine.Yearwood@synlab.co.uk	Satellite Blood Issue Fridge for storage of blood and thawed FFP only
Maternity Unit Basildon Hospital Nethermayne Basildon SS16 5NL	Jenine Yearwood Tel: +44(0)1268 524900 (ext:5076) Email: Jenine.Yearwood@synlab.co.uk	Satellite Blood Issue Fridge for storage of blood and thawed FFP only
Main Theatres Basildon Hospital Nethermayne Basildon SS16 5NL	Jenine Yearwood Tel: +44(0)1268 524900 (ext:5076) Email: Jenine.Yearwood@synlab.co.uk	Satellite Blood Issue Fridge for storage of blood and thawed FFP only
Surgical Day Unit Basildon Hospital Nethermayne Basildon SS16 5NL	Jenine Yearwood Tel: +44(0)1268 524900 (ext:5076) Email: Jenine.Yearwood@synlab.co.uk	Satellite Blood Issue Fridge for storage of blood and thawed FFP only
Haematology Day Unit Orsett Hospital Rowley Road Orsett Essex RM16 3EU	Jenine Yearwood Tel:+44(0)1268 524900 (ext:5076) Email: Jenine.Yearwood@synlab.co.uk	Satellite Blood Issue Fridge for storage of blood and thawed FFP only
Main Theatres Spire Wellesley Southend on Sea Essex SS2 4XH	Jenine Yearwood Tel:+44(0)1268 524900 (ext:5076) Email: Jenine.Yearwood@synlab.co.uk	Satellite Blood Issue Fridge for storage of blood and thawed FFP only
Basildon Hospital Nethermaine Basildon Essex SS16 5NL	**Pathology First Phlebotomy Clinic - Local Contact** Claire Thomas Tel: +44 (0) 1268 968235 E-Mail: Claire.thomas@synlab.co.uk	Phlebotomy – venous collection of blood

Location details		**Activity**
Corringham Integrated Medical and Wellbeing Centre 105 The Sorrells Standford-le-hope SS17 7ES	**Pathology First Phlebotomy Clinic - Local Contact** Claire Thomas Tel: +44 (0) 1268 968235 E-Mail: Claire.thomas@synlab.co.uk	Phlebotomy – venous collection of blood
Canvey PCC (Paddocks) Long Road Canvey Island SS8 0JA	**Pathology First Phlebotomy Clinic - Local Contact** Claire Thomas Tel: +44 (0) 1268 968235 E-Mail: Claire.thomas@synlab.co.uk	Phlebotomy – venous collection of blood
Clifton Lodge Care Home Balmoral Road Westcliff-on-Sea SS0 7DB	**Pathology First Phlebotomy Clinic - Local Contact** Claire Thomas Tel: +44 (0) 1268 968235 E-Mail: Claire.thomas@synlab.co.uk	Phlebotomy – venous collection of blood
Hadleigh Clinic 49 London Road Benfleet SS7 2QL	**Pathology First Phlebotomy Clinic - Local Contact** Claire Thomas Tel: +44 (0) 1268 968235 E-Mail: Claire.thomas@synlab.co.uk	Phlebotomy – venous collection of blood
Leigh Primary Care Centre (Pall Mall Surgery) 918 London Road Leigh on Sea SS9 3NG	**Pathology First Phlebotomy Clinic - Local Contact** Claire Thomas Tel: +44 (0) 1268 968235 E-Mail: Claire.thomas@synlab.co.uk	Phlebotomy – venous collection of blood
Orsett Hospital Rowley Road Orsett Grays RM16 3EU	**Pathology First Phlebotomy Clinic - Local Contact** Claire Thomas Tel: +44 (0) 1268 968235 E-Mail: Claire.thomas@synlab.co.uk	Phlebotomy – venous collection of blood
Rayleigh Clinic Eastwood Road Rayleigh SS6 7JP	**Pathology First Phlebotomy Clinic - Local Contact** Claire Thomas Tel: +44 (0) 1268 968235 E-Mail: Claire.thomas@synlab.co.uk	Phlebotomy – venous collection of blood
Riverside Medical Centre 175 Ferry Road Hullbridge SS5 6JH	**Pathology First Phlebotomy Clinic - Local Contact** Claire Thomas Tel: +44 (0) 1268 968235 E-Mail: Claire.thomas@synlab.co.uk	Phlebotomy – venous collection of blood

7880 Accredited to ISO 15189:2022	**Schedule of Accreditation** issued by **United Kingdom Accreditation Service** 2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK **IPP Analytics Limited trading as SYNLAB Essex** **Issue No:** 027 **Issue date:** 01 October 2026

Testing performed by the Organisation at the locations specified

Location details		Activity
South Ockendon Health Centre South Ockendon Essex RM15 5LP	**Pathology First Phlebotomy Clinic - Local Contact** Claire Thomas Tel: +44 (0) 1268 968235 E-Mail: Claire.thomas@synlab.co.uk	Phlebotomy – venous collection of blood
St Andrews Stock Road Billericay CM12 0BH	**Pathology First Phlebotomy Clinic - Local Contact** Claire Thomas Tel: +44 (0) 1268 968235 E-Mail: Claire.thomas@synlab.co.uk	Phlebotomy – venous collection of blood
St Mary's Church Hall Church End Lane Wickford SS11 7JQ	**Pathology First Phlebotomy Clinic - Local Contact** Claire Thomas Tel: +44 (0) 1268 968235 E-Mail: Claire.thomas@synlab.co.uk	Phlebotomy – venous collection of blood
Tyrells 39 Seamore Avenue Benfleet SS7 4EX	**Pathology First Phlebotomy Clinic - Local Contact** Claire Thomas Tel: +44 (0) 1268 968235 E-Mail: Claire.thomas@synlab.co.uk	Phlebotomy – venous collection of blood
Valkyrie PCC 50 Valkyrie Road Westcliffe on Sea SS0 8BU	**Pathology First Phlebotomy Clinic - Local Contact** Claire Thomas Tel: +44 (0) 1268 968235 E-Mail: Claire.thomas@synlab.co.uk	Phlebotomy – venous collection of blood
Brentwood Community Hospital Crescent Drive Shenfield Brentwood CM15 8DR	**Pathology First Phlebotomy Clinic - Local Contact** Claire Thomas Tel: +44 (0) 1268 968235 E-Mail: Claire.thomas@synlab.co.uk	Phlebotomy – venous collection of blood
Unit 26-27, Southend Victoria Shopping Centre 362 Chartwell Square Southend-on-Sea SS2 5SP	**Pathology First Phlebotomy Clinic - Local Contact** Claire Thomas Tel: +44 (0) 1268 968235 E-Mail: Claire.thomas@synlab.co.uk	Phlebotomy – venous collection of blood

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS AND TISSUES	Microbiology examination activities for the purpose of clinical diagnosis	In house documented methods based on related UK Standards for Microbiology Investigations (SMIs) and incorporating manufacturers' instructions where relevant	
Blood Non-Blood Fluids	Microbial growth	Cultures followed by manual subculture of positive growth, identification and susceptibility testing at the HUB using methods stated in schedule below PF-MIC-LP-12 Blood cultures using BD BACTEC FX analyser PHE SMI B37 i8.1	FXsited at BUH SUH Culture, ID & AST at Hub
CSF	Detection/Quantification of white and red blood cells and differentiation of polymorphs and lymphocytes. Isolation and identification of clinically significant micro organisms	PF-MIC-LP-52 CSF processing. Using light microscopy and culture.PHE SMI B27 i6.1	HUB
CAPD	Detection/Quantification of cells and differentiation polymorphs and lymphocytes. Isolation and identification of clinically significant micro organisms	PF-MIC-LP-53 CAPD Using light microscopy and culture PHE SMI B25 i6	HUB
Naso-pharyngeal aspirate	RSV antigen	Binax Now RSV PF-MIC-LP-42	HUB
Faeces, Swabs, Tissues, Urine and other body fluids	Isolation and identification of bacteria of clinical significance	Culture and microscopy with biochemical identification PHE SMI ID 1 i1.6	HUB
Bacterial/yeast in-house isolates	General bacterial identification	Using Bruker MALDI -TOF (Matrix Assisted Laser Desorption Ionisation Time-Of-Flight)Biotyper Sirius System alongside IdentifA on Kiestra for target plates PF-MIC-LP-9 PHE SMI: TP40 Issue no: 1 10.10.16	HUB

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)	Microbiology examination activities for the purpose of clinical diagnosis (cont'd)	In house documented methods based on related UK Standards for Microbiology Investigations (SMIs) and incorporating manufacturers' instructions where relevant	
Bacterial isolates (in-house)	Antibiotic sensitivity testing	Disc diffusion using EUCAST guidelines PF-MIC-LP-57	HUB
Urine	Detection and enumeration of WBC, RBC, epithelial cells, yeast cells, bacteria, casts	Automated microscopy flow cytometry using IQ Sprint 200 PF-MIC-LP-17 PHE SMI B41 i8.7	HUB
Blood, Sputum, Pus, Tissue, Urine, Bronchial washings, Swabs	Isolation and presumptive identification of Acid-alcohol fast bacilli (inc. Mycobacterium spp.)	Liquid culture using BD MGIT with microscopical examination of auramine and/or Zn stained smears PF-MIC-LP-1 PF-MIC-LP-5 PHE SMI B40i7.2	HUB
Blood, Sputum, Pus, Tissue, Urine, Bronchial washings	Detection of Acid Fast Bacilli	Microscopy of auramine stained smears PF-MIC-LP-5 PHE SMI B40i7.2	HUB
Urine	Detection of *Legionella pneumophila* and *Streptococcus pneumoniae*	Using Immuview rapid urinary antigen test PF-MIC-LP-159 PHE SMI ID18 i3	HUB
Urine	*Schistosoma haematobium* ova	Detection of ova using light microscopy – SOP PF-MIC-LP-104 PHE SMI B31 i5.1	HUB
Faeces	Detection of *C.difficile toxin* (Combined GDH/toxin A+B)	Using Quikchek Complete card assay – SOP PF-MIC-LP-105 PHE SMI B10 i1.7	HUB
Faeces	Rotavirus and Adenovirus antigens	Antigen detection using Certest Rota-Adeno assay – SOP PF-MIC-LP-108 PHE SMI B30 i8.1	HUB

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)	Microbiology examination activities for the purpose of clinical diagnosis (cont'd)	In house documented methods based on related UK Standards for Microbiology Investigations (SMIs) and incorporating manufacturers' instructions where relevant	
Faeces	Detection of ova, cysts and parasites	Using Apacor Midi Parasep parasite concentrators and microscopic examination for parasites – SOP PF-MIC-LP-76 PHE SMI B31 i5.1	HUB
Clear Adhesive Tape	Detection of *Enterobius vermicularis* ova	Detection of ova using light microscopy – SOP PF-MIC-LP-106 PHE SMI B31 i5.1	HUB
Faeces	Detection of *Cryptosporidium* oocysts	Detection of oocysts using Phenol auramine stain with fluorescent microscopy – SOP PF-MIC-LP-76 PHE SMI B31 i5.1	HUB
Skin, hair, nails, diverse specimens	Isolation of clinically significant fungi and yeasts	Manual inoculation and identification PF-MIC-LP-71 PHE SMI B39 i3.1	HUB
	Molecular activities for the purpose of clinical diagnosis	In house documented methods based on related UK Standards for Microbiology Investigations (SMIs) and incorporating manufacturers' instructions where relevant	
Urine, genital swabs,	Detection of RNA profiles for Chlamydia trachomatis (CT) and or Neisseria gonorrhoea (NG)	Aptima CT/GC using Hologic Panther NAAT (TMA) PF-MIC-LP-19 PF-MIC-LP-143	HUB
Combined nose and throat swab Throat swabs Nasal swabs In viral transport media (VTM)	Detection of: SARS-CoV-2 RNA (COVID-19) specific gene sequences: E, N2 and RdRP Influenza A Influenza B RSV	Cepheid GeneXpert RT-PCR Xpert Xpress SARS-CoV-2/Flu/RSV *plus* PF-MIC-LP-151	HUB

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)	Miscellaneous examination activities for the purpose of clinical diagnosis	In house documented methods based on related UK Standards for Microbiology Investigations (SMIs) and incorporating manufacturers' instructions where relevant	
Faeces	Detection of Norovirus	Cepheid GeneXpert RT-PCR PF-MIC-LP-155	HUB
Sputum	Presence of Multi drug resistance tuberculosis (MTB) and Rifampicin resistance (Rif)	Cepheid GeneXpert RT-PCR MTB/Rif Ultra PF-MIC-LP-156 Documented procedures based on manufactures instructions	HUB
Urine	Pregnancy testing (βHCG) detection	Surestep kit PF-MIC-LP-62	HUB
Serum	Detection of:	Documented-in-house methods to meet the requirements of the IDPS screening programme as defined in the July 2018 IDPS screening: laboratory QA evidence requirements Automated chemi-luminescence using Beckman Coulter DXi PF-BIO-LP-2	HUB
	Toxoplasma IgG & IgM antibody	PF-MIC-LP-87 (PHE SMI V30 i5)	
	Hepatitis A IgM antibody	PF-MIC-LP-86 (PHE SMI V27 i4)	
	Hepatitis A Total antibody	PF-MIC-LP-86 (PHE SMI V27 i4)	

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)	Serology examination activities for the purpose of clinical diagnosis	In house documented methods based on related UK Standards for Microbiology Investigations (SMIs) and incorporating manufacturers' instructions where relevant	
Serum	Detection of:	Documented-in-house methods to meet the requirements of the IDPS screening programme as defined in the July 2018 IDPS screening: laboratory QA evidence requirements Automated chemi-luminescence using Beckman Coulter DXi PF-BIO-LP-2	HUB
	Hepatitis C antibody	PF-MIC-LP-85 (PHE SMI V5 i7)	
	HIV 1 and 2 antibody/p24 antigen screen	PF-MIC-LP-89 (PHE SMI V11 i4.1)	
	Hepatitis B core Total antibody	PF-MIC-LP-84 (PHE SMI V4 i6)	
	Cytomegalovirus IgG & IgM antibody	PF-MIC-LP-88 (PHE SMI V28 i4)	
	Hepatitis B surface antigen	PF-MIC-LP-84 (PHE SMI V4 i6)	
Serum	Quantification of:	Automated chemi-luminescence using Beckman Coulter DXi PF-BIO-LP-2	HUB
	Hepatitis B surface antibody	PF-MIC-LP-84 (PHE SMI V4 i5.3)	
	Rubella IgG antibody	PF-MIC-LP-83 (PHE SMI V30 i5)	

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)	Serology examination activities for the purpose of clinical diagnosis (cont'd)	In house documented methods based on related UK Standards for Microbiology Investigations (SMIs) and incorporating manufacturers' instructions where relevant	
Serum	Detection of:	PF-MIC-LP-29 by ELISA-based technique using Biomerieux VIDAS PF-MIC-LP-115	HUB
	Varicella Zoster Virus IgG (VZV)	PF-MIC-LP-86(PHE SMI V27 i4) PF-MIC-LP-84(PHE SMI V4 i6)	
	Hepatitis B surface antigen		
	Hepatitis B core IgM antibody		
	Hepatitis B e-antigen		
	Hepatitis B e-antibody		
	HIV 1 and 2 antibody/p24 antigen screen		
	Mumps IgG antibody Measles IgG antibody	PF-MIC-LP-126 PF-MIC-LP-127	
Serum	Detection of Streptococcal antibody AntiStreptolysin O (ASO)	Using Biokit Rhemajet ASO kit PF-MIC-LP-110	HUB
Faeces	Helicobacter pylori Stool Antigen	Dynex DS2 and Dynex Agility Amplified IDEIA Hp StAR PF-MIC-LP-91	HUB
Serum	Syphilis total antibody	Dynex DS2 and Dynex Agility Enzyme Immunoassay PF-MIC-LP-90	HUB

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)	Blood Transfusion examination activities for the purposes of clinical diagnosis	In house documented methods and incorporating manufacturers' instructions where relevant	
Venous whole blood, EDTA	ABO group (forward and reverse) RhD type	Manual Method, column agglutination, manual tube technique SOP PF-BTR-LP-9	BUH SUH
Venous whole blood, EDTA	ABO group and RhD type (forward and reverse)	Automated method; Ortho Vision card/column agglutination. (SOP PF-BTR-LP-2)	BUH SUH
	Red cell antibody screen	Manual Method, column agglutination, SOP PF-BTR-LP-9	BUH SUH
	Red cell antibody screen	Automated method; Ortho Vision card/column agglutination. (SOP PF-BTR-LP-2)	BUH SUH
Venous whole blood, EDTA	Direct Antiglobulin Test (DAGT)	ManualTube Method, SOP PF-BTR-LP-9	SUH
	Direct Antiglobulin Test (DAGT) as below:	Automated method; Ortho Vision card/column agglutination. (SOP PF-BTR-LP-2)	BUH SUH
	Rhesus blood group antibodies: anti-C, anti-c, anti-D, anti-E, anti-e Rh/K Red Blood Cell phenotype antigens: D, C, c, E, e, K	Manual Method, column agglutination (SOP PF-BTR-LP-9)	SUH BUH
Venous whole blood, EDTA	Serological cross match - serological compatibility testing between donor red cell antigens and patient plasma antibody.	Manual method; Ortho BioVue card/column agglutination SOP BT-BTR-LP-32	BUH SUH
Venous whole blood, EDTA	Detection and Estimation of Foetal Maternal Haemorrhage through quantification of foetal Hb in maternal blood	Kleihauer test using Guest medical foetal detection kit SOP PF-BTR-LP-10	BUH SUH

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS	Haematology examination activities for the purpose of clinical diagnosis	In house documented methods and incorporating manufacturers' instructions where relevant	
Venous whole blood, EDTA	Haemoglobin Red cell count Platelet count Haematocrit White blood cell count (total) Differential white blood cell count (Neutrophil, Lymphocyte, Monocyte, Eosinophil, Basophil) Reticulocyte count MCV MCH RDW	Beckman Coulter: Unicel DxH900 analysers using AIM technology incorporating : fluorescence flow cytometry, electrical impedance, RBC pulse height detection method, sheath flow direct current (DC) detection method and calculated red cell parameters. (SOP PF-HAE-LP-2)	BUH SUH HUB
Venous whole blood, EDTA	Peripheral Blood films for the detection and reporting of normal and abnormal morphologies	Staining of peripheral blood smear with Romanowsky stains using manual method examination by light microscopy. (SOP PF-HAE-LP-15, PF-HAE-LP-19, PF-HAE-LP-20, PF-HAE-LP-21, PF-HAE-LP-23)	BUH SUH
Venous whole blood: EDTA	Peripheral Blood films for the detection and reporting of normal and abnormal morphologies	Sysmex SP-50 Film preparation and staining using May Grunwold Giemsa stain PF-HAE-LP-62	BUH SUH HUB
Bone marrow aspirate	Bone marrow films for the detection and reporting of normal and abnormal morphologies	Sysmex SP-50 Staining using May Grunwold Giemsa stain PF-HAE-LP-62	BUH SUH
Venous whole blood, EDTA Bone marrow Urine	Detection of iron and ferritin	Perl's Prussian Blue iron stain using a manual technique with examination by light microscopy. (SOP PF-HAE-LP-17)	BUH SUH
Venous whole blood, EDTA	Erythrocyte sedimentation rate	Sedimentation rate of red cells by automated analyser Alifax Test 1[1] and Alifax Roller 20[2] (SOP PF-HAE-LP-11)	BUH[2] SUH[2] HUB[1]

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	Haematology examination activities for the purpose of clinical diagnosis (cont'd)	In house documented methods and incorporating manufacturers' instructions where relevant	
Venous whole blood, EDTA	Detection and speciation of malaria parasites; Plasmodium vivax Plasmodium falciparum Plasmodium ovale Plasmodium malariae Plasmodium knowlesi	Microscopic detection by: Thin Film by Giemsa stain. Thick film by Fields Stain. All with examination by light microscopy and using SOP (PF-HAE-LP-22)	BUH SUH HUB
	Histidine Rich protein II Plasmodium Falciparum Non falciparum common antigens: Plasmodium vivax, malaria and ovale	Immunodiagnostic testing by CareUS Malaria RDT (SOP PF-HAE-LP-22)	BUH SUH HUB
Venous whole blood, EDTA	Infectious Mononucleosis Screening / Glandular fever – heterophile antibody testing	Infectious mononucleosis screen using the Clearview IM II Kit. (SOP PF-HAE-LP-10)	HUB
Venous whole blood, EDTA	Detection of Haemoglobin S	Manual sickle solubility assay using the Sickledex Test kit. (SOP PF-HAE-LP-6)	BUH SUH HUB
Venous whole blood, EDTA	G6PD qualitative screen	Fluorescence under UV light using Trinity Biotech screening reagents and manual technique (SOP PF-HAE-LP-3)	HUB
Venous whole blood, EDTA	Determination of Haemoglobin variants.	Documented-in-house methods to meet the requirements of the SCT screening programme as defined in the July 2018 NHS Sickle Cell and Thalassaemia Screening Programme: laboratory quality assurance evidence requirements Separation of haemoglobin variants by HPLC using Biorad Variant II analyser (SOP PF-HAE-LP-5, PF-HAE-LP-4)	HUB

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	Haematology examination activities for the purpose of clinical diagnosis (cont'd)	In house documented methods and incorporating manufacturers' instructions where relevant	
Venous whole blood, EDTA	Haemoglobin HbA1c	Biorad D-100 analyser using HPLC. (SOP PF-HAE-LP-1)	HUB
	Haematology (Coagulation) examination activities for the purpose of clinical diagnosis	In house documented methods and incorporating manufacturers' instructions where relevant	
Venous whole blood, citrated	Coagulation Clotting Screen, (PT, INR, APTT, APTT-ratio, Derived and Clauss Fibrinogen, D-Dimer, Thrombin Time (TT)	Automated using Werfen ACL TOP 350s by immunoassay and coagulometric assays. (SOP's PF-HAE-LP-8 , PF-HAE-LP-30, PF-HAE-LP-32)	BUH SUH
Venous whole blood, citrated	Coagulation Clotting Screen, (PT, INR, APTT, APTT-ratio, Derived and Clauss Fibrinogen, D-Dimer, Thrombin Time (TT)	Automated using Werfen ACL TOP 550 by immunoassay and coagulometric assays. (SOP's PF-HAE-LP-8 , PF-HAE-LP-30, PF-HAE-LP-32)	BUH
Venous whole blood, citrated	Coagulation Factor assays for II, V, VII, VIII, IX, X, XI and XII	Werfen ACL TOP 750s by coagulmetric assays. (SOP's PF-HAE-LP8 + PF-HAE-LP-29)	HUB
	Coagulation Factor anti Xa assay	Werfen ACL TOP 350s by coagulmetric assays. (SOP's PF-HAE-LP8 + PF-HAE-LP-29)	SUH BUH
Venous whole blood, citrated	Von Willebrands Factor assays for antigen and Ristocetin Cofactor activity	Werfen ACL TOP 750s by immunoassay. (SOP's PF-HAE-LP8 + PF-HAE-LP-33)	HUB
Venous whole blood, citrated	Thrombophilia screen, consisting of: • Protein C activity, • Antithrombin activity, Free Protein S assay, Lupus anticoagulant screen	Werfen ACL TOP 750s by chromogenic, immunoassay and coagulmetric assays. (SOP's PF-HAE-LP-8, PF-HAE-LP-28, + PF-HAE-LP-40)	HUB

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN TISSUES AND FLUIDS	Diagnostic Cytology examination activities for the purposes of clinical diagnosis	In house documented methods incorporating manufacturers' instructions as required	
Body Fluids: Cerebrospinal Fluid (CSF) Urine (General body fluids including serous fluids and respiratory samples	Preparation and examination of cellular material to identify or exclude morphological & cytological abnormalities	Preparation/centrifugation Documented in house methods in conjunction with manufacturer's instructions for: Hologic T2000 Centra-CL3 centrifuge Shandon Cytospin 4 centrifuge PF-CYT-LP-24 PF-CYT-LP-25 PF-CYT-LP-26 PF-CYT-LP-27 PF-CYT-LP-28 PF-CYT-LP-30 PF-CYT-LP-31 PF-CYT-LP-29 PF-CYT-LP-25 PF-CYT-LP-12 PF-CYT-LP-47 PF-CYT-LP-50 PF-CYT-LP-41 PF-CYT-LP-21 PF-CYT-LP-32	BUH

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN TISSUES AND FLUIDS (cont'd)	Diagnostic Cytology examination activities for the purposes of clinical diagnosis (cont'd)	In house documented methods incorporating manufacturers' instructions as required	
Synovial Fluids	Detection and identification of birefringent crystals: Urate and Pyrophosphate crystals	Documented in house methods in conjunction with manufacturer's instructions for the operation of polarising microscope (2 planes) PF-CYT-LP-29	BUH
Slides prepared in-house from sample types specified		Papanicolaou staining Documented in house methods in conjunction with manufacturer's instructions for the operation of Prisma Autostainer and Coverslipper PF-HIS-LP-66 (Automated PAP) PF-HIS-EXT-200	BUH
		May Grunwald Giemsa staining Documented in house manual staining process PF-CYT-LP-54	BUH
	Morphological assessment and interpretation/ diagnosis	Microscopy (qualitative analysis) Documented in house methods – SOP's: PF-CYT-LP-17 Using Microscopes as follows: Olympus BX45 Olympus BX50 Nikon Eclipse 50I Nikon Eclipse E400	BUH SUH

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN TISSUES AND FLUIDS (cont'd)	<u>Histopathology examination activities for the purposes of clinical diagnosis</u>	In house documented methods incorporating manufacturers' instructions as required	
Formalin fixed, fresh and frozen tissue	Preparation and examination to identify or exclude morphological & cytological abnormalities	In House documented methods for specimen dissection (consultant) staining and interpretation supported by SOPs and, where relevant, manufacturer's instructions for cutting up, processing, embedding dehydration, clearing and mounting PF-HIS-LP-40 PF-HIS-LP-64	BUH SUH
		Using: Tissue Processeors • Sakura VIP6 • Leica Histocore Peloris 3 Sakura Tec V embedder x 2 Leica Histocore Biocut microtomes PF-HIS-LP-60	BUH
		Using: Tissue processors: • Leica Histocore Peloris 3 Leica Histocore Arcadia embedding centre Leica Histocore Biocut microtomes	SUH

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN TISSUES AND FLUIDS (cont'd)	Histopathology examination activities for the purposes of clinical diagnosis (cont'd)	In house documented methods incorporating manufacturers' instructions as required	
Frozen Tissue	Intraoperative examination of tissues in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis	PF-HIS-LP-62 Frozen Section in conjunction with manufacturer's instructions for Leica Cryostat CM1950UV	BUH SUH
Fixed, fresh and frozen tissue		Routine Haematoxylin & Eosin (H&E) staining and coverslipping PF-HIS-LP-66 in conjunction with manufacturer's instructions for Sakura Prisma Autostainer and Coverslipper using Haematoxylin and Eosin stains (H and E)	BUH SUH
Fixed, fresh and frozen tissue	Detection of the following:	Documented methods (reference in parentheses) using manual special stains as indicated	
	Acid Mucins	Alcian Blue PF-HIS-LP-17	BUH
	Acid and neutral mucins	ABPAS PF-HIS-LP-90	BUH
	Amyloid	Congo Red PF-HIS-LP-18	BUH
	Elastic fibres & connective tissue	EVG PF-HIS-LP-12	BUH
	Haematopoietic cells	Long Giemsa PF-HIS-LP-27	BUH
	Gram positive and negative bacteria	Gram PF-HIS-LP-13	BUH
	Nuclei and connective tissue	HVG PF-HIS-LP-20	BUH
	Melanin	Masson Fontana PF-HIS-LP-92	BUH

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN TISSUES AND FLUIDS (cont'd)	Histopathology examination activities for the purpose of clinical diagnosis (cont'd)		
Fixed, fresh and frozen tissue (cont'd)	Detection of the following: (cont'd)	Documented methods (reference in parentheses) using stains as indicated	
	H. pylori	Modified Giemsa (PF-HIS-LP-25)	BUH
	Fibrin connective tissue	Martius Scarlet Blue (MSB) (PF-HIS-LP-22)	BUH
	Polysaccharides including glycogen	PAS (PF-HIS-LP-90)	BUH
	Hemosiderin	Perls Prussian Blue (PF-HIS-LP-14)	BUH
	Reticulin fibres	Reticulin (PF-HIS-LP-15)	BUH
	Mast Cells	Toluidine Blue (PF-HIS-LP-26)	BUH
	Mycobacterium spp including tuberculosis	Ziehl Neelsen (PF-HIS-LP-16)	BUH
FFPE tissue	Detection of the following:	Documented in-house methods (PF-HIS-LP-37 & PF-HIS-LP-34) used in accordance with Leica's operating instructions for the use of Bond III (SUH, BUH) & Ventana Ultra automated immunostainers (SUH).	
	Foetal Liver Cells	AFP (PF-HIS-EXT-222)	BUH SUH
	Epithelial Cells	BerEp4 (PF-HIS-EXT-122)	BUH SUH

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN TISSUES AND FLUIDS (cont'd)	Histopathology examination activities for the purposes of clinical diagnosis (cont'd)		
FFPE tissue (cont'd)	Detection of the following: (cont'd)	Immunohistochemistry Leica Bond III (SUH, BUH) & Ventana Ultra immunostainers (SUH) (cont'd)	
	T-cells, B-cells in the mantle zone	Bcl-2 oncoprotein (PF-HIS-EXT-163)	BUH SUH
	Follicular centre B-cells	Bcl-6 (PF-HIS-EXT-13)	BUH SUH
	Luminal cells of the fallopian tube	Ca125 (PF-HIS-EXT-15)	BUH SUH
	Sialyl Lewis	Ca19.9 (PF-HIS-EXT-108)	BUH
	Mesothellial cell lining	Calretinin (PF-HIS-EXT-97)	BUH SUH
	Low molecular weight marker	Cam 5.2 (PF-HIS-EXT-136)	BUH SUH
	Dendritic cells and thymocytes	CD1a (PF-HIS-EXT-92)	BUH
	T-cell marker	CD3 (PF-HIS-EXT-22)	BUH SUH
	T-helper cells	CD4(PF-HIS-EXT-25)	BUH SUH
	T-cells, B-cells in the mantle zone	CD5 (PF-HIS-EXT-28)	BUH SUH
	T-Cell, NK cells	CD7 (PF-HIS-EXT-96)	BUH
	Cytotoxic T-cells	CD8 (PF-HIS-EXT-127)	BUH
	Immature B Lymphocytes	CD15 (PF-HIS-EXT-135)	BUH SUH

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN TISSUES AND FLUIDS (cont'd)	Histopathology examination activities for the purposes of clinical diagnosis (cont'd)		
FFPE tissue (cont'd)	Detection of the following: (cont'd)	Immunohistochemistry Leica Bond III (SUH, BUH) & Ventana Ultra immunostainers (SUH) (cont'd)	
	B-cell marker	CD20 (L26) (PF-HIS-EXT-19)	BUH SUH
	Mature B-cells and FDC	CD21 (PF-HIS-EXT-20)	BUH SUH
	FDC and EBV transformed blasts	CD23 (PF-HIS-EXT-21)	BUH SUH
	RS Cells	CD30 (Ber-H2) (PF-HIS-EXT-54)	BUH SUH
	Endothelial	CD31 (PF-HIS-EXT-199)	BUH SUH
	Endothelial Marker	CD34 (PF-HIS-EXT-24)	BUH SUH
	Plasma cells and activated T-Cell	CD38 (PF-HIS-EXT-117)	BUH SUH
	T-cell and myeloid cells	CD43 (PF-HIS-EXT-26)	BUH SUH
	Leukocyte common antigen	CD45 (LCA) (PF-HIS-EXT-27)	BUH SUH
	Neural cell adhesion molecule	CD56 (PF-HIS-EXT-29)	BUH SUH
	Macrophages	CD68 (PF-HIS-EXT-30)	BUH SUH
	B-Cell marker	CD79a (PF-HIS-EXT-31)	BUH SUH
	Mic2 gene products	CD99 (MIC2) (PF-HIS-EXT-194)	BUH SUH

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN TISSUES AND FLUIDS (cont'd)	Histopathology examination activities for the purposes of clinical diagnosis (cont'd)		
FFPE tissue (cont'd)	Detection of the following: (cont'd)	Immunohistochemistry Leica Bond III (SUH, BUH) & Ventana Ultra immunostainers (SUH) (cont'd)	
	Mast cells and GIST	CD117 (c-kit) (PF-HIS-EXT-40)	BUH SUH
	Plasma cells	CD138 (PF-HIS-EXT-55)	BUH SUH
	Carcinoembryonic antigen	CEA (Mono) (PF-HIS-EXT-34)	BUH SUH
	Intestinal epithelial	CDX2 (PF-HIS-EXT-33)	BUH SUH
	Neuroendocrine	ChromograninA (PF-HIS-EXT-35)	BUH SUH
	Mantle cell lymphoma	CyclinD1 (PF-HIS-EXT-41)	BUH SUH
	Squamous and myoepithelial	Cytokeratin 5/6 (PF-HIS-EXT-124)	BUH SUH
	Glandular, transitional epithelia	Cytokeratin 7 (PF-HIS-EXT-39	BUH SUH
	Squamous, basal epithelia	Cytokeratin 14 (PF-HIS-EXT-36)	BUH SUH
	Epithelial cells	Cytokeratin 19 (PF-HIS-EXT-37)	BUH SUH
	Gastrointestinal epithelia	Cytokeratin 20 (PF-HIS-EXT-38)	BUH SUH
	Broad-range cytokeratin	Cytokeratin AE1/AE3 (PF-HIS-EXT-11)	BUH SUH
	Lymphatic endothelium	D2-40 (PF-HIS-EXT-210)	SUH

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN TISSUES AND FLUIDS (cont'd)	Histopathology examination activities for the purposes of clinical diagnosis (cont'd)		
FFPE tissue (cont'd)	Detection of the following: (cont'd)	Immunohistochemistry Leica Bond III (SUH, BUH) & Ventana Ultra immunostainers (SUH) (cont'd)	
	Intermediate filament	Desmin (PF-HIS-EXT-42)	BUH SUH
	GIST	DOG-1 (PF-HIS-EXT-43)	BUH SUH
	Cell adhesion molecule	E-Cadherin (PF-HIS-EXT-45)	BUH SUH
	Epithelial membrane antigen	EMA (PF-HIS-EXT-44)	BUH SUH
	Fibrohistocytic Tumour	Factor XIIIa (PF-HIS-EXT-130)	BUH SUH
	Gross Cystic Disease Fluid Protein	GCDFP-15 (PF-HIS-EXT-47)	BUH SUH
	Trophoblasts	HCG (PF-HIS-EXT-211)	BUH SUH
	CK's 1,5,10 and 14	High Molecular Weight Cytokeratin 34βE12 (PF-HIS-EXT-9)	BUH SUH
	Melanosomes	HMB45 (PF-HIS-EXT-48)	BUH SUH
	Leydig, Sertoli cells	Inhibin (PF-HIS-EXT-12)	BUH SUH
	Immunoglobulin Kappa light chains	Kappa light chains (PF-HIS-EXT-212)	BUH
	Proliferation marker	Ki67 (PF-HIS-EXT-49)	BUH SUH
	Immunoglobulin Lambda light chains	Lambda light chains (PF-HIS-EXT-213)	BUH

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN TISSUES AND FLUIDS (cont'd)	Histopathology examination activities for the purposes of clinical diagnosis (cont'd)		
FFPE tissue (cont'd)	Detection of the following: (cont'd)	Immunohistochemistry Leica Bond III (SUH, BUH) & Ventana Ultra immunostainers (SUH) (cont'd)	
	Melanocytes	Melan A (PF-HIS-EXT-50)	BUH
	Mesothelial cells/Colorectal	Mesothelin (PF-HIS-EXT-97)	BUH
	Broad range cytokeratin	MNF116 (PF-HIS-EXT-132)	BUH SUH
	B-cells	MUM-1 (PF-HIS-EXT-131)	BUH SUH
	Lung adenocarcinoma	Napsin (PF-HIS-EXT-118)	BUH SUH
	Seminoma	Oct 3/4 (PF-HIS-EXT-52)	BUH SUH
	mRNA/ p16 HPV biomarkers	P16 INK4 (PF-HIS-EXT-195)	BUH SUH
	Tumour suppressor gene	P53 (PF-HIS-EXT-53)	BUH SUH
	Basal cell marker	P63 (PF-HIS-EXT-91)	BUH SUH
	Neuroendocrine marker	PGP9.5 (PF-HIS-EXT-214)	SUH
	Placental Alkaline Phosphatase	PLAP (PF-HIS-EXT-190)	BUH SUH
	Prostate specific antigen	PSA (PF-HIS-EXT-90)	BUH SUH
	Neoplastic prostate glands	Racemase (P504S) (PF-HIS-EXT-10)	BUH SUH
	Proximal tubules	RCC (PF-HIS-EXT-215)	BUH SUH

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN TISSUES AND FLUIDS (cont'd)	Histopathology examination activities for the purposes of clinical diagnosis (cont'd)		
FFPE tissue (cont'd)	Detection of the following: (cont'd)	Immunohistochemistry Leica Bond III (SUH, BUH) & Ventana Ultra immunostainers (SUH) (cont'd)	
	Melanoma, neuroendocrine	S100 (PF-HIS-EXT-58)	BUH SUH
	Mesenchymal marker	SMA (PF-HIS-EXT-59	BUH SUH
	Neuroendocrine marker	Synaptophysin (PF-HIS-EXT-61)	BUH SUH
	Early B-Cell, thymocytes marker	Tdt (PF-HIS-EXT-62)	BUH SUH
	Lymphatic endothelial	Thrombomodulin (CD141) (PF-HIS-EXT-250)	BUH
	Thyroid Transcription factor-1	TTF-1 (PF-HIS-EXT-63)	BUH SUH
	Mesenchymal Marker	Vimentin (PF-HIS-EXT-64)	BUH SUH
	Plasma cell marker	VS38c (plasma cell) (PF-HIS-EXT-117)	SUH
	Wilms tumour gene product	WT-1 (PF-HIS-EXT-197)	BUH SUH
	B cell marker (found in reactive populations)	BOB-1 (PF-HIS-EXT-14)	SUH
	B cell marker (wide variety of normal and neoplastic cells)	CD10 (PF-HIS-EXT-17)	SUH
	Normal T cells and related neolplasms(e.g T lymphoblastic Leukaemia)	CD2 (PF-HIS-EXT-18)	SUH

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN TISSUES AND FLUIDS (cont'd)	Histopathology examination activities for the purposes of clinical diagnosis (cont'd)		
FFPE tissue (cont'd)	Detection of the following: (cont'd)	Immunohistochemistry Leica Bond III (SUH, BUH) & Ventana Ultra immunostainers (SUH) (cont'd)	
	B cell marker, lymphoblastic leukaemia	Pax5 (PF-HIS-EXT-18)	SUH
	For identification of myoepithelial cells in the breast and for identification of Smooth muscle neoplasm	Smooth Muscle Myosin (PF-HIS-EXT-60) Roche Ventana Immuno stainer	SUH
FFPE tissue	Anti Oestrogen Receptor antibody	ER (PF-HIS-EXT-46)	SUH
FFPE tissue	Anti Progesterone Receptor Antibody	PR (PF-HIS-EXT-94)	SUH
FFPE tissue	Anti HER-2 (Herceptin Antibody) 4B5 clone	HER2 (PF-HIS-EXT-178)	SUH
	Morphological assessment and interpretation/diagnosis	Microscopy (qualitative analysis) In-house procedures using light microscopy PF-CYT-LP-17	BUH SUH

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS	Andrological examination activities for the purposes of clinical diagnosis		
Semen	Post vasectomy: Detection of sperm	Based on 2016 Laboratory guidelines for post vasectomy semen analysis: Association of Biomedical Andrologists, the British Andrology Society and the British Association of Urological Surgeons) Manual method using large volume chambers/ manual microscopy and documented in-house procedure SOP SOP PF-HIS-LP-10	SUH
Semen	Fertility testing:	Based on WHO laboratory manual for the examination and processing of human semen (Sixth edition 2021) Manual method and documented in-house procedure SOP PF-HIS-LP-9 PF-HIS-LP-76 PF-HIS-LP-110	SUH
	Volume	Volume/weight	
	pH	Colorimetric strips	
	Sperm morphology including TZI scoring	Stained slides (Papanicolau) microscopy (Bright field) PF-HIS-LF-132	
	Sperm concentration	Improved Neubauer counting chambers and Microscopy (Phase contrast)	
	Sperm motility	Microscopy (Phase contrast)	
	Sperm vitality	Stained slide (Eosin/Nigrosin dye exclusion test) microscopy (Bright field)	

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	Andrological examination activities for the purposes of clinical diagnosis (cont'd)		
Semen (cont'd)	Fertility testing: (cont'd)		
	Sperm motility Sperm concentration	Based on WHO laboratory manual for the examination and processing of human semen (Sixth edition 2021) and documented in-house procedure Semen Analysis in conjunction with manufacturer's instructions for analysis using SCA CASA (Microm) SOP PF-HIS-LP-96	SUH
	Biochemistry examination activities for the purpose of clinical diagnosis	Documented in-house procedures in conjunction with manufacturer's instructions for analysis using: Beckman Coulter AU680 analysers with random access colorimetry or turbidimetry technology. Therapeutic drug monitoring PF-BIO-LP-6 PF-BIO-LP-3	
Serum/Plasma	Amikacin		BUH SUH
	Carbamazepine		BUH
	Gentamicin		BUH SUH
	Paracetamol		BUH SUH
	Salicylate		BUH SUH
	Theophylline		BUH SUH
	Vancomycin		BUH SUH

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)	Documented in-house procedures in conjunction with manufacturer's instructions for analysis using: Beckman Coulter AU5800 (HUB) and AU680 (BUH, SUH) analysers with random access colorimetry or turbidimetry technology. Therapeutic drug monitoring PF-BIO-LP-6 PF-BIO-LP-3	
Serum/Plasma (cont'd)	Digoxin		BUH SUH HUB
	Phenytoin		BUH SUH
	Lithium		BUH SUH HUB
		Beckman Coulter AU5800 analysers with random access colorimetry or turbidimetry technology. Biochemical marker analysis: PF-BIO-LP-3	
Serum / Plasma	Alpha 1 Anti-trypsin Haptoglobin Transferrin		HUB
		Beckman Coulter AU5800 (HUB) and AU680 (SUH, BUH) analysers with random access colorimetry or turbidimetry technology. Biochemical marker analysis: PF-BIO-LP-3 PF-BIO-LP-6	
Serum / Plasma	Bicarbonate Iron		HUB BUH SUH

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)	Documented in-house procedures in conjunction with manufacturer's instructions for analysis using: Beckman Coulter AU680 analysers with random access colorimetry or turbidimetry technology. Biochemical marker analysis: PF-BIO-LP-6	
Serum / Plasma	Conjugated Bilirubin Ammonia Bile Acids Ethanol		BUH SUH
		Beckman Coulter AU5800 (HUB) and AU680 (SUH, BUH) analysers with ion selective electrode technology. Electrolyte analysis: PF-BIO-LP-3 PF-BIO-LP-6	
Serum/Plasma/Urine	Sodium Potassium Chloride		HUB BUH SUH

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)	Documented in-house procedures in conjunction with manufacturer's instructions for analysis using: Beckman Coulter AU5800 (HUB) and AU680 (SUH, BUH) analysers with random access colorimetry or turbidimetry technology. Routine biochemistry tests PF-BIO-LP-3 PF-BIO-LP-6	
Serum/Plasma	Albumin ALP ALT Amylase AST Total Bilirubin Calcium Cholesterol CK Creatinine(Enzymatic) GGT Glucose HDL cholesterol LDH Magnesium Phosphate Total Protein Triglycerides Urate Urea		HUB BUH SUH
Serum/Plasma	Vitamin D	Beckman Coulter DxI 800 routine biochemistry testing: PF-BIO-LP-2	HUB

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)	Documented in-house procedures in conjunction with manufacturer's instructions for analysis using: Beckman AU5800 (HUB) and AU680 (BUH, SUH) analysers with random access colorimetry, turbidimetry technology. Routine Biochemistry Testing: PF-BIO-LP-3 PF-BIO-LP-6	
Urine	Creatinine Total protein Urea Urate		HUB BUH SUH
		Beckman AU5800 analysers with random access colorimetry, turbidimetry technology. Routine Biochemistry Testing: PF-BIO-LP-3 PF-BIO-LP-6	
Urine	Phosphate Albumin Calcium		HUB
		Beckman AU680 analysers with random access colorimetry, turbidimetry technology. Routine Biochemistry Testing: PF-BIO-LP-3	
Cerebral Spinal Fluid	Glucose Total Protein Lactate		BUH SUH
		Beckman AU680 analyser with random access technology. Routine Biochemistry Testing: PF-BIO-LP-3	
Plasma	Lactate	Enzymatic	BUH SUH

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)	Documented in-house procedures in conjunction with manufacturer's instructions for analysis using: Beckman AU5800 (HUB) and AU680 (BUH, SUH) analysers with random access colorimetry, turbidimetry technology. Biochemistry Immunological testing: PF-BIO-LP-3 PF-BIO-LP-6	
Serum / Plasma	CRP		HUB BUH SUH
		Beckman AU5800 analysers with random access colorimetry, turbidimetry technology. Biochemistry Immunological testing: PF-BIO-LP-3	
Serum / Plasma	C3 C4 IgA IgG IgM Rheumatoid factor II Immunoglobulin E		HUB

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)	Documented in-house procedures in conjunction with manufacturer's instructions for analysis using:	
		Beckman Coulter DxI 800 for chemiluminescence immunoassay: PF-BIO-LP-2	
Serum / Plasma	B12 Folate FSH FT3 LH Oestradiol Prolactin		HUB SUH BUH
	PSA PTH SHBG Testosterone Thyroid peroxidase antibodies (TPO)		
		Beckman Coulter Unicel DxI 800 Chemiluminescence immunoassay: PF-BIO-LP-2	
Serum	Erythropoietin		HUB
		Beckman Coulter DxI 800/Access 2 for chemiluminescence immunoassay: PF-BIO-LP-1	
Serum / Plasma	Cortisol Ferritin FT4 bHCG Progesterone TSH		BUH SUH HUB
Serum	Serum Kappa Free light chains Serum Lambda Free Light Chains	Binding site Optilite analyser using PF-BIO-LP-115	HUB
Serum	Beta 2 Microglobulin	Immunoturbidimetric	HUB

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)	Documented in-house procedures in conjunction with manufacturer's instructions for analysis using:	
		Roche Cobas E411 random access colorimetry or turbidimetry or chemiluminescence technology for tumour markers: PF-BIO-LP-7	
Serum / Plasma	AFP Ca-125 Ca-199 Ca-153 CEA		HUB
		Roche Cobas E411 random access colorimetry or turbidimetry or chemiluminescence technology for cardiac markers: PF-BIO-LP-7	
Serum / Plasma	NT-Pro-BNP		HUB BUH SUH
		Roche Cobas E411 random access colorimetry or turbidimetry or chemiluminescence technology for cardiac markers: PF-BIO-LP-7	
Serum / Plasma	Troponin T		HUB BUH SUH
		Roche Cobas E411, chemiluminescence.	
Serum/Plasma	Procalcitonin	PF-BIO-LP-7	SUH BUH
Serum	Macroprolactin	PEG precipitation (ECLIA) PF-BIO-LP-55	HUB
Serum	Serum protein Electrophoresis and serum Monoclonal Protein Quantitation	Sebia Capillarys 2 Flex Capillary Zonalelectrophoresis (CZE) PF-BIO-LP-47	HUB
Serum	Serum Monoclonal Protein Typing	Sebia Capillarys 2 Flex Immunotyping/subtraction	HUB

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)	Documented in-house procedures in conjunction with manufacturer's instructions for analysis using:	
Serum	Serum Monoclonal Protein Typing	Sebia Hydrasys 2 Scan using serum immunofixation PF-BIO-LP-30	HUB
Urine	Urine Protein Electrophoresis Urine Monoclonal Protein Typing	Sebia Hydrasys 2 Scan using immunofixation and Gel Zonal electrophoresis. PF-BIO-LP-30 PF-BIO-LP-33	HUB
Serum/Urine	Osmolality	Advanced Instruments OSMO 1 Freezing Point Depression	BUH SUH
Sweat	Chloride	Sherwood Meter using titrimetric method PF-POC-LP-68	SUH
Cerebral Spinal Fluid	Xanthochromia	Spectrophotometric method using Northstar BIO-UVSpectrophotometry: With Bio-c program PF-BIO-LP-41	SUH BUH
Faeces	Faecal Calprotectin	Beckman Coulter AU5800 analysers with random access particle enhanced turbidimetry technology. PF-BIO-LP-3 PF-BIO-LP-44	HUB
Faeces	Faecal Pancreatic Elastase	Beckman Coulter AU5800 analysers using particle enhanced turbidimetry technology. PF-BIO-LP-44	HUB

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	Biochemistry examination activities for the purpose of clinical diagnosis (cont)	Documented in-house procedures in conjunction with manufacturer's instructions for analysis using: Immulite 2000 Electro chemiluminescence immunoassay PF-BSM-LP-8	
Serum / Plasma	Growth Hormone B2 Microglobulin IGF1	Sandwich immunoassay Sandwich immunoassay Sandwich immunoassay	HUB
	Immunology examination activities for the purpose of clinical diagnosis	Phadia 250 analysers with fluorescence enzyme immunoassay technology PF-IMM-LP-14 PF-BSM-CP-1	
Serum / Plasma	Almond Alternaria Apple Apricot Ara h2 peanut ARA H8 Specific IgE Aspergillus fumigatus Aspergillus fumigatus specific IgG Aspergillus niger Avocado Banana Barley Basil Beef Black pepper Blackberry Blue Mussel Blueberry Brazil nut Broccoli Buckwheat Budgerigar feathers Budgerigar specific IgG Cabbage		HUB

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	Immunology examination activities for the purpose of clinical diagnosis (cont'd)	Documented in-house procedures in conjunction with manufacturer's instructions for analysis using: Phadia 250 analysers with fluorescence enzyme immunoassay technology PF-IMM-LP-14 PF-BSM-CP-1	
Serum/Plasma (cont'd)	Cacao Candida albicans Carrot Casein Cashew Cat dander Celery Cheddar cheese Cherry Chick pea Chicken Chilli pepper Cladosporium herbarum Clam Clove Coconut Coffee Common ragweed Common wasp COR A8 specific IgE Coriander Cotton, crude fibres Cow's milk Crab Cranberry Crayfish Cucumber Date Dog dander Duck feathers Egg white Egg yolk Fish (cod) Fish mix Food mix Fruit mix specific IgE Garlic Ginger		HUB

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	Immunology examination activities for the purpose of clinical diagnosis (cont'd)	Documented in-house procedures in conjunction with manufacturer's instructions for analysis using: Phadia 250 analysers with fluorescence enzyme immunoassay technology PF-IMM-LP-14 PF-BSM-CP-1	
Serum/Plasma (cont'd)	Gluten Goat milk Goat epithelium Grain mix Grape Grapefruit Grass mix Green bean Green pepper Guinea pig Haddock Hamster Lemon Lentil Lettuce Lime Lobster Lupine seed Macadamia nut Mackerel Maize/corn Mango Melon Micropolyspora faeni specific Mint Mosquito Rat mix Red Kidney bean Rice Rye Sage Salmon Scallop Sesame seed Sheep epithelium Shrimp Silver Birch Soybean		HUB

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	Immunology examination activities for the purpose of clinical diagnosis (cont'd)	Documented in-house procedures in conjunction with manufacturer's instructions for analysis using: Phadia 250 analysers with fluorescence enzyme immunoassay technology PF-IMM-LP-14 PF-BSM-CP-1	
Serum/Plasma (cont'd)	Squid Strawberry Sunflower seed Sweet Potato Tea Timothy grass Tomato Tree pollen mix UK Tryptase Tuna Walnut Wheat White bean Yeast		HUB
	Detection of autoantibodies	Phadia 250 analysers with fluorescence enzyme immunoassay technology. PF-IMM-LP-14	
Serum / Plasma	Anti-MPO Anti-PR3 Anti-TTG IgA Anti-cardiolipins (IgG and IgM) ENA CTD antibodies Ds DNA (EIA) Anti-TTG IgG Anti-GBM CPP (IgG)	PF-IMM-LP-10 PF-IMM-LP-11 PF-IMM-LP-15 PF-IMM-LP-17 PF-IMM-LP-18 PF-IMM-LP-19 PF-IMM-LP-20 PF-IMM-LP-21 PF-IMM-LP-22	HUB
	Detection of autoantibodies:	NovaLite monkey oesophagus slides using Indirect Immunofluorescence method PF-IMM-LP-8 PF-IMM-LP-9	
Serum	EMA IgG EMA IgA		HUB

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS (cont'd)	Immunology examination activities for the purpose of clinical diagnosis (cont'd)	Documented in-house procedures in conjunction with manufacturer's instructions for analysis using:	
Serum	ANCA abs	NovaLite ANCA slides using Indirect Immunofluorescence method PF-IMM-LP-2	HUB
Serum	Anti-dsDNA (crithida) antibodies	NovaLite Crithidia luciliae slides using Indirect Immunofluorescence method PF-IMM-LP-3	HUB
Serum	Anti-nuclear antibodies	Biosystems HEp-2 slides using Indirect Immunofluorescence method PF-IMM-LP-1	HUB
Serum / Plasma	Liver and pernicious anaemia	Detection of autoantibodies using ImmuGlo mouse liver/kidney/stomach slides using Indirect Immunofluorescence method PF-IMM-LP-7	HUB
Serum / Plasma	Intrinsic Factor as part of pernicious anaemia screen	QuantLite Intrinsic Factor Werfren Agility ELISA	HUB
END			