


Schedule of Accreditation

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United Kingdom Accreditation Service

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

 <p>UKAS MEDICAL</p> <p>8432</p> <p>Accredited to ISO 15189:2012</p>	<p>LABex Analytics LLP</p> <p>Issue No: 013 Issue date: 21 October 2021</p>	
	<p>LABex Analytics LLP 1 Mabledon Place London WC1H 9AX</p>	<p>Contact: Sally Curtis Tel: +44 (0) 20 7307 7342 E-Mail: sally.curtis@tdlpathology.com Website: www.tdlpathology.com</p>
<p>Testing performed by the Organisation at the locations specified below</p>		

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details	Activity	Location code
<p>Address</p> <p>Department of Blood Sciences / Microbiology London North West Healthcare NHS Trust Northwick Park Hospital Watford Road Harrow HA1 3UJ</p> <p>Local contact Sally Curtis</p>	<p>General Microbiology Virology Biochemistry Haematology Blood Transfusion</p>	A
<p>Department of Cellular Pathology London North West Healthcare NHS Trust St Marks Hospital (Northwick Park Campus) Watford Road Harrow HA1 3UJ</p> <p>Sally Curtis</p>	<p>Histology Cytology (gynae & non-gynae)</p>	B
<p>Department of Blood Sciences Central Middlesex Hospital Acton Lane Park Royal NW10 7NS</p> <p>Sally Curtis</p>	<p>Virology Biochemistry Haematology Blood Transfusion</p>	C
<p>Pathology Laboratory Ealing Hospital Uxbridge Road Southall Middlesex UB1 3HW</p> <p>Sally Curtis</p>	<p>Biochemistry Haematology Blood Transfusion Serology Histology</p>	D



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Site activities performed away from the locations listed above:

Location details	Activity	Location code
Blood Fridge Main Theatre Block Northwick Park Hospital Watford Road Harrow HA1 3UJ	Blood issue fridge for storage of blood products only; no testing occurs at this site	E
Blood Fridge Maternity Block Level 4 Room 4N144 Northwick Park Hospital Watford Road Harrow HA1 3UJ	Blood issue fridge for storage of blood products only; no testing occurs at this site	F



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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
<p>HUMAN BODY SAMPLES</p> <p>Specimens from wounds, eyes, ears, nose, throat, mouth, pus, tissue, joint fluids, CSF, valves, sputum, bronchial washings, bronchial lavage, genitalia, cannulae, shunts, CSF</p> <p>Bacterial cultures isolated in-house</p> <p>Bacterial cultures isolated in-house</p> <p>Bacterial cultures isolated in-house</p> <p>Bacterial cultures isolated in-house</p> <p>Blood</p>	<p>Microbiology</p> <p><u>General Bacteriology</u></p> <p>Examination activities for the purposes of clinical diagnosis</p> <p>General isolation of micro-organisms of clinical significance</p> <p>General identification of micro-organisms of clinical significance</p> <p>General identification of micro-organisms of clinical significance</p> <p>Antimicrobial susceptibility testing</p> <p>Antimicrobial susceptibility testing determination of minimum inhibitory concentration (MIC)</p> <p>Detection of microbial growth and general isolation of micro-organisms of clinical significance</p>	<p>In-house documented procedures as referenced and based on PHE SMIs</p> <p>Culture onto selected media for manual and automated inoculation of samples onto culture media using BD Kiestra TDL-GM-046-ET-001</p> <p>General biochemical methods TDL-GM-046-ET-001</p> <p>Matrix Assisted Laser Desorption Ionisation ToF using Bruker MALDI TDL-M-6-136</p> <p>Manual disc diffusing with antimicrobial discs using BSAC and EUCAST guidelines TDL-M-6-34, TDL-M-6-127</p> <p>Automated using BD Phoenix AP and M50 systems with EUCAST guidelines TDL-M-6-139</p> <p>Gradient MIC using E-Tests and MIC Evaluators</p> <p>Fluorescence detection using Bactec FX followed by isolation onto selected media TDL-M-6-138</p> <p>Positive bottles from Location D are transferred to Location A for culture</p>	<p>A</p> <p>A</p> <p>A</p> <p>A</p> <p>A</p> <p>A, D</p>



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HUMAN BODY SAMPLES	<u>General Bacteriology</u> Examination activities for the purposes of clinical diagnosis	In-house documented procedures as referenced and based on PHE SMIs	
Blood, fluids and respiratory samples	Detection and isolation of Mycobacterium sp.	Fluorescence detection using BD MGit 960 (automated) and culture on Lowenstein-Jensen slopes manual) TDL-M-6-138	A
Blood, fluids and respiratory samples	Detection of acid fast bacilli	Manual staining using Auramine Phenol and Ziehl Neelsen stains and microscopy TDL-M-6-79	A
CSF and joint fluids	Quantification of white and red blood cells and qualitative demonstration of bacteria	Manual microscopy TDL-M-6-20	A
Faeces	General isolation and characterisation of Salmonella, Shigella, Campylobacter & E. coli 0157, Vibrio sp., Listeria sp. and Yersinia sp.	Manual and automated culture using BD Kiestra and selective culture media TDL-M-6-38	A
Faeces	Detection of <i>Clostridium difficile</i> GDH antigen and toxins A & B	Immunochromatography using Quik Chek Complete TDL-M-6-80	A
Faeces	Detection of Helicobacter pylori antigen	ELISA using Premier Platinum Plus HpSA and DS2 analyser TDL-M-6-14	A
Faeces	Detection of Rotavirus antigen	Immunochromatography using Immunocard Stat Rotavirus TDL-M-6-43	A
Urine	Quantification of white and red blood cells, and qualitative demonstration of bacteria, epithelial cells, yeast cells and casts	Manual microscopy and Sedimax automated analyser TDL-M-6-63	A



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HUMAN BODY SAMPLES	<u>General Bacteriology</u>			
	Examination activities for the purposes of clinical diagnosis (cont'd)	In-house documented procedures as referenced and based on PHE SMIs with manufacturers instructions		
	Urine	General isolation, characterisation and sensitivity testing of micro-organisms of clinical significance	Culture using Mast Uri microtitre culture system WSL-MIC-001	A
	Urine	General isolation and characterisation of micro-organisms of clinical significance	Culture onto selected media using manual and automated culture using BD Kiestra TDL-M-6-63	A
	Urine	Detection of <i>Legionella pneumophila</i> serotype 1 antigen	Immunochromatography using Binax NOW rapid card TDL-M-6-65	A
		Detection of <i>Streptococcus pneumoniae</i>	Immunochromatography using Binax NOW rapid card TDL-M-6-66	A
		<u>Parasitology</u>		
		Examination activities for the purposes of clinical diagnosis	In-house documented procedures based on PHE SMIs	
	Faeces, rectal swabs, sputum, urine & aspirates	Examination for the presence of parasites (ova, cysts, trophozoites and worms) of clinical significance	Concentration using MIDI Parasep SF and manual microscopy or by direct microscopy TDL-M-6-39	A
	Clear adhesive tape slides	Enterobius sp	Direct microscopy TDL-M-6-39 by	A
Faeces	Cryptosporidium sp	Staining using modified Ziehl-Neelsen and microscopy TDL-M-6-39	A	



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Skin, hair and nail	<u>Mycology</u> Examination activities for the purposes of clinical diagnosis		
	General isolation and characterisation of fungi of human clinical significance	Manual culture onto selective culture media and microscopic / macroscopic identification TDL-M-6-53	A
Yeast cultures isolated in-house	Susceptibility testing	Using Sensititre Yeastone TDL-M-6-56	A
CSF, blood	Detection of Cryptococcal antigen	Lateral flow using IMMY kit TDL-M-6-140	A
HUMAN BODY SAMPLES	<u>Molecular Biology</u> Examination activities for the purposes of clinical diagnosis	In house documented procedures based on and in conjunction with manufacturers instructions	
	Detection of Mycobacterium tuberculosis complex and genes encoding for rifampicin resistance	PCR using Cepheid GeneXpert TDL-M-6-60	A
	Detection of Influenza A, Influenza B & Respiratory Syncytial Virus (RSV)	PCR using Cepheid GeneXpert TDL-M-6-135	A
	Detection of SARS CoV-2 virus RNA (COVID-19) specific gene sequences: ORF1a, N	Polymerase chain reaction using SAMBA II analyser and SRAS-CoV-2 kit MIC-NWP6-123	A
Throat, nasal and nasopharyngeal swabs, nasopharyngeal aspirate (NPA) and NPA in universal transport medium			
Nasopharyngeal swabs and combined nose / throat swabs in viral transport media			



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Serum / Plasma unless otherwise stated	<u>Viral Serology</u>	In house documented procedures based on and in conjunction with manufacturers instructions Immunoassay using Roche Cobas 8000 (Location A) & 6000 (Locations C & D) TDL-NWLH-CB-037	
	Examination activities for the purposes of clinical diagnosis. Detection of:		
	Hepatitis A IgM & IgG total		
	Hepatitis B core IgM, core total antibody, e antigen, e antibody		
	Hepatitis B surface antigen, Hepatitis B surface antibody and Core antibody		
	Hepatitis B surface antigen		
	Hepatitis C antibody		
	Detection of HIV 1 & 2 antibody and p24 antigen		
Serum / plasma	Rubella IgG antibody	Manual agglutination (TPPA) TDL-NWLH-CB-060 Flocculation test (RPR) TDL-NWLH-CB-061	A
	Syphilis antibody		
	Confirmation of Syphilis antibody		



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<p>FNAs, needle washings, fluids, urine, sputum, BAL</p>	<p><u>Cytopathology (Non-Gynae)</u></p> <p>Examination of cellular material in order to identify or exclude morphological and cytological abnormalities for the purposes of diagnosis</p>	<p>In house documented procedures based on and in conjunction with manufacturers instructions</p> <p>Processing, Staining and reporting of Diagnostic Specimens using documented in-house procedures with reference to the following procedures and equipment</p> <p>TDL-NWLH-C-011 Sputum TDL-NWLH-C-012 Bronchial Brushings TDL-NWLH-C-013 Bronchial Washings TDL-NWLH-C-014 BAL TDL-NWLH-C-015 Serous & Cyst fluids TDL-NWLH-C-016 Urine</p> <p>TDL-NWLH-C-009 Centrifuge TDL-NWLH-C-010 Cyto centrifuge TDL-NWLH-C-030 ThinPrep 2000 processor TDL-NWLH-C-044 ThinPrep 5000 processor</p> <p>Interpretive/diagnostic microscopy (qualitative analysis) HIS-NWP4-2</p>	<p>B</p> <p>B</p>



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Ejaculate	<u>Andrology</u> Andrological examination activities for the purposes of clinical diagnosis Post-Vasectomy: Detection of Spermatazoa	In house documented procedures based on and in conjunction with the following guidelines Manual microscopy based on WHO Laboratory Manual for Examination and Processing of Human Semen 5 th Edition 2010 TDL-NWLH-C-026	B
Ejaculate	Fertility Testing: Volume Sperm motility Detection of IgA Sperm concentration Sperm morphology Fructose	Manual methods based on WHO Laboratory Manual for Examination and Processing of Human Semen 5 th Edition 2010 Volume/weight TDL-NWLH-C-021 Manual microscopy TDL-NWLH-C-022 MAR Test TDL-NWLH-C-023 Manual microscopy TDL-NWLH-C-024 Manual microscopy TDL-NWLH-C-025 Seliwanoffs method TDL-NWLH-C-064	B



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Fixed, fresh and frozen tissue; excisional and incisional biopsies and surgical resection specimens	<u>Routine Histopathology</u> Examination of tissues to identify or exclude morphological and cytological abnormalities for the purposes of diagnosis	Macroscopic and Microscopic examination. In house documented procedures in conjunction with equipment as specified below:	
Formalin fixed tissues samples (as above)		<u>Specimen dissection</u> Using manual methods TDL-NWLH-HP-006 Assisting in Consultant Led Specimen Dissection TDL-NWLH-HP-080 Procedure for BMS Specimen Transfer TDL-NWLH-HP-081 Procedure and assisting BMS specimen dissection Ext-1044 Pathologist cut-up SOPs	B & D
Formalin fixed tissues samples (as above)		<u>Decalcification</u> <u>SOP TDL-NWLH-HP-018</u>	B & D
Formalin fixed tissues samples (as above)		<u>Tissue Processing</u> Thermo Scientific Excelsior, Leica Peloris II, and Sakura Tissue Tek VIP5 & VIP6 tissue processors tissue processor TDL-NWLH-HP-011	B
Formalin fixed and processed tissues samples (as above)		<u>Tissue embedding</u> Thermo and Leica EG1150 H embedding stations TDL-NWLH-HP-012	B
Formalin fixed and embedded tissues samples (as above)		<u>Tissue sectioning (microtomy)</u> Thermo Finesse microtomes TDL-NWLH-HP-013	B
Fresh tissue samples – frozen section		<u>Frozen Sections</u> Leica CM1860 Cryostat TDL-NWLH-HP-088	B



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Fixed, fresh and frozen tissue; excisional and incisional biopsies and surgical resection specimens	<u>Routine Histopathology</u> Examination of tissues to identify or exclude morphological and cytological abnormalities for the purposes of diagnosis	In house documented procedures in conjunction with equipment as specified below:	B
Formalin fixed slides	<u>Routine and Special Staining</u> Detection of:	Documented in-house procedure for staining using Sakura Tissue Tek Prisma Autostainer and Coverslipper (automated) and by manual method TDL-NWLH-HP-014 TDL-NWLH-HP-088	
	Identification of basophilic and eosinophilic structures	Haemotoxylin & Eosin	
	Gycogen & mucins	Periodic Acid Schiffs (PAS)	
	Mucins & neutral mucins	Alcian Blue Diastase PAS	
	Mucins	Alcian Blue PAS	
	Glycogen	PAS Diastase	
	Special Staining	Documented in-house procedure for manual staining	
	Detection of:	TDL-NWLH-HP-088	
	Glycogen	Alcian Blue	
	Glycogen	Alcian Blue PAS	
	Glycogen	Alcian Blue PAS Diastase	
	Mast cells and mucopolysaccharides	Azure A	
	Amyloid	Congo red	
	Haemopoetic cells	Giemsa	
	Helicobacter pylori	Giemsa	



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Fixed, fresh and frozen tissue; excisional and incisional biopsies and surgical resection specimens	<u>Routine Histopathology</u> Examination of tissues to identify or exclude morphological and cytological abnormalities for the purposes of diagnosis (cont'd)	In house documented procedures in conjunction with equipment as specified below:	B
Formalin fixed slides	<u>Routine and Special Staining</u> <u>Detection of:</u>	Documented in-house procedure for staining using Sakura Tissue Tek Prisma Autostainer and Coverslipper (automated) and by manual method TDL-NWLH-HP-014 TDL-NWLH-HP-088	
	Reticulin	Gordons & Sweets Reticulin	
	Fungi	Grocott	
	Gram positive / negative bacteria	Gram stain	
	Collagen / smooth muscle	Haematoxylin Van Geison	
	Fibrin	Martius Scarlet Blue	
	Melanin pigment	Masson Fontana	
	Connective tissue	Masson Trichrome	
	Connective tissue	Melanin Bleach	
	Elastic fibres	Millers Elastic	
	Glycogen	PAS +/- Diastase Digestion	
	Iron (Haemosiderin)	Perls	
	Lipofuchsin	Schmori Reaction	
	Copper associated protein	Victoria Blue	
	Calcium	Von Kossa	
	Tubercle bacilli	Ziehl Neelsen	
	Mycobacterium leprae	Wade Fite	



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Paraffin tissue section	<p><u>Immunocytochemistry</u></p> <p>Examination of tissues to identify or exclude morphological and cytological abnormalities for the purposes of diagnosis</p> <p>Cytokeratin cocktail for CK1-8, 10, 14-16 and 19</p> <p>Diffuse lymph-proliferative disease and neoplastic cells of follicular lymphomas.</p> <p>Prognostic marker in some B-cell Non-Hodgkins lymphomas.</p> <p>Epithelial cell types</p> <p>Normal cortical thymocytes, Langerhan cells, dendritic reticulum cells</p> <p>T cells</p> <p>T cells (helper+mature)</p> <p>Mature T cells, T cell lymphomas</p> <p>T cells</p> <p>Mature B cells, follicular dentritic cells, CALLA</p> <p>Granulocytes, Reed-Sternberg cells</p> <p>B cells</p> <p>Adenocarcinoma of intestinal origin</p>	<p>In-house procedures in conjunction with manufacturers instructions using Leica Bond III and the following antibodies: TDL-NWLH-HP-089</p> <p>AE1/AE3</p> <p>BCI-2</p> <p>BCL-6</p> <p>Ber-EP4</p> <p>CD1A</p> <p>CD3</p> <p>CD4</p> <p>CD5</p> <p>CD8</p> <p>CD10</p> <p>CD15</p> <p>CD20</p> <p>CDX2</p>	B



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Paraffin tissue section	<u>Immunocytochemistry</u>		B
	Examination of tissues to identify or exclude morphological and cytological abnormalities for the purposes of diagnosis (cont'd)	In-house procedure with pre-fixed Q Cards as stated) in conjunction with manufacturers instructions using Leica Bond III and the following antibodies: TDL-NWLH-HP-089	
	Mature B cells, Follicular dendritic cells	CD21	
	B cells, some T cells	CD23	
	Reed-Sternberg cells, plasma cells	CD-30	
	Endothelial cells	CD31	
	Haematopoetic cells, vascular endothelium	CD34	
	Leukocyte common antigen (LCA)	CD45	
	Natural killer cells, neuroendocrine tissues	CD56	
	Macrophages, monocytes, myeloid cells	CD68	
	B cells	CD79a	
	Mast cells	CD117	
	Differentiating B cells	CD138	
	Tissues of neuroendocrine origin	Chromogranin A	
Cytokeratin 5	CK5		
Stratified squamous epithelium, basal cells, mesotheliomas	CK5/6		



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Paraffin tissue section	<u>Immunocytochemistry</u>		B
	Examination of tissues to identify or exclude morphological and cytological abnormalities for the purposes of diagnosis (cont'd)	In-house procedure with pre-fixed Q Cards as stated) in conjunction with manufacturers instructions using Leica Bond III and the following antibodies: TDL-NWLH-HP-089	
	Normal and neoplastic epithelia	CK7	
	Epithelial cells	CK14	
	Cytokeratin 5	CK19	
	Adenocarcinomas, columnar epithelial cells	CK20	
	CMV	CMV	
	Tumours	CYC-D1	
	Normal duct epithelial cells, ductal carcinoma	E-cad	
	Normal and neoplastic epithelium	EMA	
	Oestrogen receptors	ER	
	V.W factor in endothelial cells	FACTOR VIII	
	Placental trophoblasts	HCG	
	Melanoma, melanocyte differentiation	Hmb45	
	B cells and plasma cells	Kappa	
B cell follicles	Lambda		
Melanoma marker	Melan A		



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Paraffin tissue section	<u>Immunocytochemistry</u>		B
	Examination of tissues to identify or exclude morphological and cytological abnormalities for the purposes of diagnosis (cont'd)	In-house procedure with pre-fixed Q Cards as stated) in conjunction with manufacturers instructions using Leica Bond III and the following antibodies: TDL-NWLH-HP-089	
	Differential identification of colorectal carcinoma	MLH1	
	MNF116	MNF116	
	Myeloperoxidase	MPO	
	Mismatch repair protein	MSH2	
	Mismatch repair protein	MSH6	
	Multiple myeloma oncogene	MUM1	
	Myosin	Myosin	
	Peripheral nerves, neuroendocrine tumours	NSE	
	Postmeiotic segregation increased 2	pms2	
	Progesterone receptors	pgr	
	Prostate basal cells, proliferative cells	P63	
	Prostate secretory and ductal epithelium	PSA	
Schwann cells, nerve processes, S100 +ve neoplasms	S100		
Smooth muscle cells, myoepithelial cells	SMA		



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Paraffin tissue section	<p><u>Immunocytochemistry</u></p> <p>Examination of tissues to identify or exclude morphological and cytological abnormalities for the purposes of diagnosis (cont'd)</p> <p>Neuroendocrine cells</p> <p>Lining blood vessels, lymphatic vessels, mesothelial cells</p> <p>Thyroglobulin containing cells</p> <p>Lung and thyroid (thyroid follicular cells)</p> <p>Cells of mesenchymal origin</p> <p>Breast carcinoma</p> <p>Kras mutation & Epidermal Growth Factor Receptors</p> <p>Endometrial glands, ovarian tumours, adenocarcinoma</p> <p>Epithelial cells, Adenocarcinoma</p>	<p>In-house procedure with pre-fixed Q Cards as stated) in conjunction with manufacturers instructions using Leica Bond III and the following antibodies: TDL-NWLH-HP-089</p> <p>Synaptophysin</p> <p>Thrombomodulin</p> <p>Thyroglobulin</p> <p>TTF1</p> <p>Vim</p> <p>Her 2 (TDL-NWLH-HP-025)</p> <p>KRAS & EGFR (TDL-NWLH-HP-027)</p> <p>CA-125</p> <p>CA 19-9</p>	B



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	<p>Smooth muscle. Leiomyosarcomas.</p> <p>Apocrine epithelia of skin and breast. Breast tumours</p> <p>Cytoplasm of pneumocytes and alveolar macrophages of lung and renal tubules</p> <p>Tumour suppressor protein. Mucosal crypts and lymphatic aggregates of bowel, basal epithelial cells and germinal centres of tonsil</p> <p>Nuclear staining of epithelial and smooth muscle cells. Wilms tumour, malignant mesotheliomas</p>	<p>Calponin</p> <p>GCDFP-15</p> <p>Napsin A</p> <p>P53</p> <p>WT-1</p>	



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<p>FFPE slides (Formalin fixed paraffin embedded) tissue on glass slides stained on-site</p> <p>FFPE slides (Formalin fixed paraffin embedded) tissue on glass slides stained at an external source</p>	<p><u>Immunocytochemistry</u></p> <p>Examination of tissues to identify or exclude morphological and cytological abnormalities for the purposes of diagnosis (cont'd)</p>	<p>Interpretive/diagnostic microscopy SOP TDL-E-HP-020</p> <p>Interpretive/diagnostic microscopy SOP TDL-E-HP-020</p>	<p>B</p> <p>D</p>



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LABex Analytics LLP

Issue No: 013 Issue date: 21 October 2021

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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	<u>Haematology</u> Haematology examination activities for the purposes of clinical diagnosis:	In house documented procedures based on equipment manuals and standard methods as specified below:	
EDTA Blood	Full Blood Count:	Using Sysmex XE-5000 WSL-AH-001	A
	White Blood Cells (WBC) Red Blood Cells (RBC) Haemoglobin (HGB) Haematocrit (HCT) Mean Cell Volume (MCV) Mean Cell Haemoglobin (MCH) Mean Cell Haemoglobin Concentration (MCHC) Platelets (PLT) Red Cell Distribution (RDW) Neutrophils (NEUT) Lymphocytes (LYMP) Monocytes (MONO) Eosinophils (EO) Basophils (BASO) Nucleated Red Blood Cells (NRBC) Reticulocytes (RET)	Using Sysmex XE-2100 WSL-AH-001 TDL-E-H-048	C & D
EDTA Blood	Blood film assessment & cell differential	May-Grunwald & Giemsa stains using: Sysmex Sp-1000i & Hematak staining machines or manual hand staining and microscopy	A & D
		Hematek staining machine and microscopy TDL-E-H-053, TDL-NWLH-H-037 & WSL-AH-052	C & D
EDTA Blood	Erythrocyte Sedimentation Rate	Vescube Optical Electronic method SOP TDL-E-H-057	D
		Dispette 11 Westergren method SOP TDL-E-H-004	D



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EDTA Blood	Erythrocyte Sedimentation Rate	Using Sysmex Interrliner TDL-NWLH-H-002	A
		Using StaRRsed Autocompact TDL-NWLH-H-044	C
EDTA Blood	Detection of Infectious Mononucleosis heterophile antibodies	Immunochromatography using Biokit Monogen rapid antigen detection cards TDL-NWLH-H-006	A & C
EDTA Blood	Detection of Infectious Mononucleosis heterophile antibodies	Immunochromatography using Clearview IM Screen SOP TDL-E-H-051	D
EDTA Blood	P. falciparum and non P. falciparum (excl knowlesi) malarial antigens	Rapid Diagnostic Testing using CareStart Malaria Rapydtest. pLDH/HRP2 Combo (Pan/Pf) by lateral flow immunochromatography SOP HAE-NWP5-38 (Loc A) SOP E-H-001 (Loc D)	A & D
EDTA Blood	Detection of intra-erythrocyte parasites	Giemsa pH 7 stain & light microscopy SOP HAE-EAL3-1	D
EDTA Blood	Sickle Cell Haemoglobin Screening Test	Solubility test using Streck Sickledex Solubility SOP TDL-NWLH-H-007 SOP HAE-EAL3-21	A & D



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Bone marrow aspirate	Bone marrow for detection of microscopic cell contents and structure	Manual staining and microscopy using May-Grunwald and Giemsa stains TDL-NWLH-H-008	A & D
	Iron deposits	Manual staining and microscopy using GCC Iron stain kit TDL-NWLH-H-035	A
		Perls iron stain and light microscopy TDL-E-H-045	D
EDTA Blood	Quantitation of HbF, HbS & HbA2	Using Biorad high performance liquid chromatography TDL-NWLH-H-025	C
Dried blood spot	Sickle Cell Haemoglobin Screening Test	High performance liquid chromatography using VNBS HPLC system TDL-MWLH-H-045	C
EDTA Blood	Identification of Haemoglobin variants	Iso-electric focusing using Perkin Elmer TDL-NWLH-H-023	C
		Acid gel electrophoresis using Helena kit TDL-NWLH-H-029	C
		Capillary electrophoresis using Sebia Capillarys TDL-NWLH-H-034	C
		Mass spectrometry using Quattro Premier XE Tandem Quadropole Mass Spectrometer TDL-NWLH-H-028	A



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HUMAN BODY FLUIDS	<u>Haematology</u>	In house documented procedures based on equipment manuals and standard methods as specified below:	
EDTA Blood	G6PD quantitation	Spectrophotometry using Jenway Spectrophotometer TDL-NWLH-H-031	C
EDTA Blood	G6PD screen	By immunochromatography using Pointe Scientific kit SOP TDL-NWLH-H-061	C
Citrated blood	<u>Coagulation</u>		
	International Normalised ratio (INR)	Using Sysmex CS5100 WSL-AH-035, WSL-AH-044 & WSL-AH-047, WSL-AH-050	A
	Prothrombin time		
	Fibrinogen-Clauss	Using Sysmex CS2100 WSL-AH-035, WSL-AH-044 & WSL-AH-047, TDL-NWLH-H-020	C
	Activated Partial Thromboplastin time		
Citrated blood	D-Dimer		
	Prothrombin time	Sysmex CA1500 by optical clot detection unless stated: SOP TDL-E-H-050	D
	Thrombin time		
	Activated partial thromboplastin time (APTT)	By calculation	
	Fibrinogen	Immunoturbidimetry	
	APTT ratio		
	D-Dimer		
	International Normalised Ratio		



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HUMAN BODY FLUIDS	<u>Blood Transfusion</u> General examination activities for the purposes of clinical diagnosis:	In house documented procedures in conjunction with equipment manuals and standard methods as specified below:	
EDTA Blood	Blood group: A RhD Positive A RhD Negative B RhD Positive B RhD Negative AB RhD Positive AB RhD Negative O RhD Positive O RhD Negative	Using Grifols Eflexis analyser and Gel-based microtyping system and reagents (automated) BTF-EAL3-1	A & D
		Using Grifols Wadiana analyser and Gel-based microtyping system and reagents (automated) BTF-EAL3-10	C & D
		Using Grifols Gel-based microtyping system and reagents (manual) BTF-EAL3-25	A, C & D
EDTA Blood	Antibody detection and identification Rh: D,C,E,c,e,Cw Kell: K,k,Kpa,Kpb Duffy: Fya,Fyb Kidd: Jka,Jkb Lewis: Lea,Leb P: P1 MNS: M,N,S,s Lutheran: Lua,Lub	Using Grifols Eflexis analyser, Gel-based microtyping system, screening & panel cells and NHSBT panels (automated) BTF-EAL3-1	A & D
		Using Grifols Wadiana analyser, Gel-based microtyping system, screening & panel cells (automated) BTF-EAL3-10	C & D
		Using Grifols Gel-based microtyping system and reagents (manual) BTF-EAL3-25	A, C & D
EDTA Blood	Compatibility testing of patient's plasma with donor cells	Using Grifols Gel-based microtyping system and Indirect Antiglobulin test (manual) BTF-EAL3-58	A, C & D



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HUMAN BODY FLUIDS	<u>Blood Transfusion</u> General examination activities for the purposes of clinical diagnosis:	In house documented procedures in conjunction with equipment manuals and standard methods as specified below:	
EDTA Blood	Direct Antiglobulin test (automated) Direct Antiglobulin test (manual)	Using Grifols Eflexis analyser and Gel-based microtyping system (automated) BTF-EAL3-24 Using Grifols Wadiana analyser, Gel-based microtyping system, screening & panel cells (automated) BTF-EAL3-24	A & D C & D
EDTA Blood	Antigen Phenotyping: Rh: C,E,c,e, Cw Kell: K	Using Grifols Gel-based microtyping system (manual) BTF-EAL3-24 Using Grifols Eflexis analyser and Gel-based microtyping system (automated) BTF-EAL3-26	A, C & D A & D
EDTA Blood	Measurement of Foetal Rbc in maternal blood for FMH determination	Using Grifols Wadiana analyser, Gel-based microtyping system, screening & panel cells (automated) BTF-EAL3-26 Using Grifols Gel-based microtyping system (manual) BTF-EAL3-26 By modified Kleihauer-Betke test using Source Bioscience Fetal Red Cell Detection kit and Fixol TDL-BT-077	C & D A, C & D A



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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 Serum / plasma unless stated Serum / plasma Urine only Urine also Serum / plasma Serum / plasma Serum / plasma, urine Serum / plasma Serum / plasma	<u>General Biochemistry</u> Biochemical examination activities for the purposes of clinical diagnosis. Quantification of:	In house documented procedures based on equipment manuals and standard methods as specified below: Using Roche Cobas 8000 (Location A) and 6000 (Locations C & D) with reference to the following measurement principles: WSL-AB-COB-006 & TDL-NWLH-CB-043	
	Albumin	by photometry	A, C & D
	Tina-quant Albumin	by immunoturbidimetry	D
	Alanine transaminase	by photometry	A, C & D
	Alkaline phosphatase	by photometry	A, C & D
	Alpha fetoprotein	by immunoassay	A & C
	Amikacin	by immunoassay	A, C & D
	Ammonia	by photometry	A, C & D
	Amylase	by photometry	A, C & D
	Aspartate aminotransferase	by photometry	A & D
	Bicarbonate	by photometry	A & C
	Bilirubin (total)	by photometry	A, C & D
	Ca125	by immunoassay	A
	Calcium	by photometry	A & D
	Calcium	by photometry	C
	Carbamazepine	by photometry	A & D



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HUMAN BODY FLUIDS	<u>General Biochemistry</u>		
Serum / plasma unless stated	Biochemical examination activities for the purposes of clinical diagnosis. Quantification of:	In house documented procedures based on equipment manuals and standard methods as specified below: Using Roche Cobas 8000 (Location A) and 6000 (Locations C & D) with reference to the following measurement principles: WSL-AB-COB-006 & TDL-NWLH-CB-043	
	Carcinoembryonic antigen	by immunoassay	A
	Chloride	by ion sensitive electrode	A & D
	Cholesterol	by photometry	A , C & D
Urine only	Cholesterol	by photometry	D
	Complement C3	by turbidimetry	
	Complement C4	by turbidimetry	
Urine also	Creatinine (jaffe method)	by photometry	A, C & D
Serum / plasma	Conjugated Bilirubin	by photometry	A & D
	Cortisol	by immunoassay	A & D
	CO2	by immunoassay	D
	C-reactive protein	by turbidimetry	A & D
	Creatinine (enzymatic method)	by photometry	A, C & D
	Creatinine kinase	by photometry	A, C & D
	Digoxin	by immunoassay	A & D
Plasma	Ethanol	by spectrophotometry	A & D



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HUMAN BODY FLUIDS	<u>General Biochemistry</u>			
	Biochemical examination activities for the purposes of clinical diagnosis. Quantification of:	In house documented procedures based on equipment manuals and standard methods as specified below:		
		Using Roche Cobas 8000 (Location A) and 6000 (Locations C & D) with reference to the following measurement principles: WSL-AB-COB-006 & TDL-NWLH-CB-043		
	Ferritin	by immunoassay	A, C & D	
	Free Triiodothyronine	by immunoassay	A & C	
	Free Thyroxine (FT) 3 & 4	by immunoassay	A, C & D	
	Folate	by immunoassay	A & D	
	Follicle stimulating hormone	by immunoassay	A & D	
	Serum / plasma	Fructosamine	by photometry	A
		Gamma glutamyl transferase	by photometry	A & D
		Gentamicin	by immunoassay	A & D
	CSF also	Glucose	by photometry	A, C & D
		HDL-Cholesterol	by photometry	A, C & D
		Human chorionic gonadotrophin	by immunoassay	A, C & D
	Iron	by spectrophotometry	A & D	
	Immunoglobulins A, G, M	by immunoturbidimetry	A	
Plasma & CSF	Lactate	by photometry	A, C & D	
	Lactate dehydrogenase	by photometry	A, C & D	
Serum / plasma	Lithium	by photometry	A & D	



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	Biochemical examination activities for the purposes of clinical diagnosis. Quantification of:	In house documented procedures based on equipment manuals and standard methods as specified below:		
		Using Roche Cobas 8000 (Location A) and 6000 (Locations C & D) with reference to the following measurement principles: WSL-AB-COB-006 & TDL-NWLH-CB-043		
		Luteinizing hormone	by immunoassay	A
		Magnesium	by photometry	A, C & D
	Urine only	Magnesium	by photometry	D
	Urine	Microalbumin	by photometry	A
		NT Pro-Brain natriuretic peptide	by immunoassay	A
		Oestradiol	by immunoassay	A & D
		Parathyroid hormone	by immunoassay	A, C & D
		Paracetamol	by photometry	A & D
		Phenytoin	by photometry	A & D
	Urine also	Phosphate	by photometry	A, C & D
		Potassium	by ion sensitive electrode	A, C & D
		Progesterone	by immunoassay	A & D
		Procalcitonin	by immunoassay	A & D
	Prolactin	by immunoassay	A	
	Prostate specific antigen	by immunoassay	A	
Urine & CSF also	Protein (total)	by photometry	A, C & D	
Serum / plasma	Rheumatoid factor	by immunturbidimetry	A	



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HUMAN BODY FLUIDS	<u>General Biochemistry</u>			
	Biochemical examination activities for the purposes of clinical diagnosis. Quantification of:	In house documented procedures based on equipment manuals and standard methods as specified below:		
		Using Roche Cobas 8000 (Location A) and 6000 (Locations C & D) with reference to the following measurement principles: WSL-AB-COB-006 & TDL-NWLH-CB-043		
	Urine also	Salicylate	by photometry	A & D
		Sodium	by ion sensitive electrode	A, C & D
		Sex hormone binding globulin	by immunoassay	A
		Theophylline	by photometry	A & D
		Triglycerides	by photometry	A & C
	Urine only	Triglycerides	by photometry	D
		Thyroid stimulating hormone	by immunoassay	A, C & D
Urine only	Transferrin	by immunoturbidimetry	A	
	hs Troponin T	by immunoassay	A, C & D	
	Urate	by photometry	A	
	Urate	by photometry	A & D	
	Urea	by photometry	A, C & D	
	Vancomycin	by immunoassay	A & D	
	Valproate	by photometry	A & D	
	Vitamin B12	by immunoassay	A, C & D	



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	Biochemical examination activities for the purposes of clinical diagnosis. Quantification of:	In house documented procedures based on equipment manuals and standard methods as specified below:	
		Using Roche Cobas 8000 (Location A) and 6000 (Locations C & D) with reference to the following measurement principles: WSL-AB-COB-006 & TDL-NWLH-CB-043	A & C A & C A & C
	Acute kidney alert	by calculation	D
	Anion gap	by calculation	D
	Urine only Albumin:Creatinine ratio	by calculation	D
	Urine also Creatinine clearance	by calculation	D
	Calcium (adjusted)	by calculation	D
	Estimated Glomerular Filtration rate (eGFR)	by calculation	D
	Urine also Cholesterol(Total/HDL)	by calculation	D
	Cholesterol (LDL-non fasting)	by calculation	D
	Non-HDL Cholesterol	by calculation	A, C & D
	LDL Cholesterol	by calculation	A & C
	Globulins	by calculation	D
	Protein:Creatinine ratio	by calculation	D
	Tubular Phosphate Reabsorption	by calculation	D
Transferrin Saturation	by calculation	A	
Free Copper Index	by calculation	A	



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Serum / plasma	Macroprolactin	TDL-NWLH-CB-046 by PEG precipitation followed by Roche Cobas immunoassay	A
Whole blood	HbA1c	By high performance liquid chromatography using TOSOH G8 TDL-NWLH-CB-006	A
Whole blood	HbA1c	Bio-Rad Variant II turbo using high-performance liquid chromatography SOP TDL-EHT-B-VAR-010	D
Serum / plasma & urine	Osmolality	By freezing point depression using Vitech Osmometer TDL-NWLH-CB-013	A, C & D
Sweat	Chloride	Sherwood Sweat Chloride meter by colourimetry SOP TDL-EHT-B-CHL-001	D
Sweat	Conductivity	Sweat CHEK conductivity model 3100 flow-through conductivity cell SOP TDL-EHT-B-SWT-001	D
Urine	Porphobilinogen	By ion exchange column extraction and spectrophotometry using Thermo Scientific Evo 201 TDL-NWLH-CB-024	A
Urine	Porphyrins	By scanning spectrophotometry using Thermo Scientific Evo 201 TDL-NWLH-CB-027	A
CSF	Xanthochromia	By spectrophotometry using which Thermo Scientific Evo 201 TDL-NWLH-CB-030	A
Faeces	Occult blood	By Chromatography using Hema Screen kit TDL-NWLH-CB-019	A



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Serum, urine	Detection of kappa & lambda light chains	By electrophoresis using Sebia Hydrasys 2 TDL-NWLH-CB-050	A
Serum, urine	Protein immunofixation		
Serum	Detection of normal and abnormal protein electrophoretic patterns	Protein electrophoresis using Sebia Capillarys 3 TDL-NWLH-CB-052	A
	Protein monoclonal quantification		
	Protein immunotyping		
Serum / plasma	Testosterone DHEAs 17-OH Progesterone Androstenodione	TDL-NWLH-CB-040	A
		By liquid chromatography and mass spectrometry using Waters Quattro and Waters Acquity with reference to:	
Urine	Free Cortisol	TDL-NWLH-CB-041	A
Serum / plasma	25-hydroxyvitamin D	TDL-NWLH-CB-039	
Urine	5-Hydroxyindoleacetic acid	TDL-NWLH-CB-035	

END