


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 9615 Accredited to ISO 15189:2022	Imperial College Healthcare NHS Trust operating as North West London Pathology Issue No: 012 Issue date: 28 May 2025	
	Charing Cross Hospital Rm 2L20, Pathology Quality Office Fulham Palace Road London W6 8RF	Contact: Helen Hobson Tel: +44 (0) 20 8321 6153 E-Mail: helen.hobson1@nhs.net Website: www.NWLPathology.nhs.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	Local contact		
Charing Cross Hospital Fulham Palace Road Hammersmith London W6 8RF	Tyrone Dickson	Histopathology Electron Microscopy Diagnostic Cytology	X-Histo X-EM
Hammersmith Hospital Du Cane Road East Acton London W12 0HS	Tyrone Dickson	Frozen section histology Molecular Diagnostics/MRD Immunophenotyping Cytogenetics	H-Histo H-MOL H-Immunop H-CytoG

Site activities performed away from the locations listed above:

Location details		Activity	Location code
MOHS Chelsea and Westminster		MOHS, frozen section histology	C-MOHS
Endobronchial ultrasound (EBUS) Clinic SMH		FNA material/slide preparation & cellularity assessment	M-FNA



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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 TISSUE AND FLUIDS</p> <p>Tissues: biopsy, excision and resection.</p>	<p><u>Histopathological examinations for the purpose of clinical diagnosis</u></p> <p>Examination of tissues in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis</p>	<p>In-house documented methods for macroscopic and microscopic examination incorporating manufacturer's instructions where relevant for dissection, processing, embedding, staining and reporting:</p> <p><u>Tissue dissection:</u></p> <p>Amputation - CEL-CP-033-NWL</p> <p>Bladder - CEL-CP-042-NWL</p> <p>Breast - CEL-CP-031-NWL</p> <p>Central and peripheral nervous system tumours - CEL-CP-040-NWL</p> <p>Head & Neck - CEL-CP-028-NWL</p> <p>Kidney - CEL-CP-043-NWL</p> <p>Osteoarticular - CEL-CP-034-NWL</p> <p>Penis - CEL-CP-044-NWL</p> <p>Prostate - CEL-CP-045-NWL</p> <p>Salivary gland - CEL-CP-029-NWL</p> <p>Skin - CEL-CP-027-NWL</p> <p>Testis - CEL-CP-046-NWL</p> <p>Gynaecological SOP - CEL-CP-035-NWL</p> <p>Respiratory Specimens cut-up SOP - CEL-CP-037-NWL</p>	<p>X-Histo</p> <p>X-Histo</p> <p>X-Histo</p> <p>X-Histo</p> <p>X-Histo</p> <p>X-Histo</p> <p>X-Histo</p> <p>X-Histo</p> <p>X-Histo</p> <p>X-Histo</p> <p>X-Histo</p> <p>X-Histo</p> <p>X-Histo</p> <p>X-Histo</p>



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<p>HUMAN BODY TISSUE AND FLUIDS (cont'd)</p> <p>Tissues: biopsy, excision and resection (cont'd)</p>	<p><u>Histopathological examinations for the purpose of clinical diagnosis</u> (cont'd)</p> <p>Examination of tissues in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd)</p>	<p>In-house documented methods for macroscopic and microscopic examination incorporating manufacturer's instructions where relevant for dissection, processing, embedding, staining and reporting:</p> <p>Haematopathology cut-up SOP - CEL-CP-047-NWL</p> <p>Hepatopancreaticobiliary SOP - CEL-CP-051-NWL</p> <p>Kidney Transplant Resection - CEL-CP-057-NWL</p> <p>Pancreas Transplant Resection - CEL-CP-058-NWL</p> <p>Thyroid and Parathyroid - CEL-CP-061-NWL</p> <p>Temporal Artery Samples - CEL-CP-063-NWL</p> <p>Upper G.I Cancer -CEL-CP-012-NWL</p> <p>Colorectal Specimens - CEL-CP-019-NWL</p> <p>Liver SOP - CEL-CP-020-NWL</p> <p>Placenta SOP - CEL-CP-022-NWL</p> <p>Bowel Cancer Screening Programme (BCSP) Specimen Handling - CEL-CP-065-NWL</p> <p>Gallbladder and Appendices - CEL-CP-066-NWL</p> <p>Specimen transfer SOP CEL-LP-303-NWL</p>	<p>X-Histo</p> <p>X-Histo</p> <p>X-Histo</p> <p>X-Histo</p> <p>X-Histo</p> <p>X-Histo</p> <p>X-Histo</p> <p>X-Histo</p> <p>X-Histo</p> <p>X-Histo</p> <p>X-Histo</p>



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<p>HUMAN BODY TISSUE AND FLUIDS (cont'd)</p> <p>Tissues: biopsy, excision and resection (cont'd)</p> <p>Fresh tissue</p>	<p><u>Histopathological examinations for the purpose of clinical diagnosis (cont'd)</u></p> <p>Examination of tissues in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd)</p> <p>Examination of tissues in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis</p>	<p>In-house documented methods for macroscopic and microscopic examination incorporating manufacturer's instructions where relevant for dissection, processing, embedding, staining and reporting:</p> <p><u>Decalcification:</u></p> <p>Decalcification - CEL-LP-240-NWL</p> <p><u>Frozen sections:</u></p> <p>Leica cryostat CM1950 Preparing Tissue for Frozen Section, Cryotomy and Diagnosis - CEL-LP-328-NWL</p> <p>Thermo Cryostar NX50 Preparing Tissue for Frozen Section, Cryotomy and Diagnosis - CEL-LP-328-NWL</p> <p>Leica cryostat CM1950 CELP-LP-086-NWL</p>	<p>X-Histo</p> <p>H-Histo</p> <p>X-Histo</p> <p>C-MOHS</p>



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HUMAN BODY TISSUE AND FLUIDS (cont'd)	<u>Histopathological examinations for the purpose of clinical diagnosis (cont'd)</u>	In-house documented methods for macroscopic and microscopic examination incorporating manufacturer's instructions where relevant for dissection, processing, embedding, staining and reporting:	
Formalin fixed tissue processed to paraffin wax (FFPE), Fresh tissue, Frozen Tissue, Cell blocks	Examination of tissues in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis	<u>Tissue processing</u> - Leica Peloris 3 CEL-LP-720-NWL	X-Histo
		<u>Embedding</u> -: HistoCore Arcadia	
		Embedding Protocol - CEL-LP-712-NWL	X-Histo
		<u>Microtomy</u> - Leica RM2255 Leica HistoCore Autocut microtome	
		Microtomy Procedure - CEL-LP-718-NWL	X-Histo
		<u>Automated staining and coverslipping</u> - Leica ST5020 (autostainer), Leica CV5030 (coverslipper);, <u>Autostainer and Coverslipper (CEL-LP-736-NWL)</u>	
		<u>Automated routine staining</u> - Ventana HE 600	
		Ventana HE 600 System - CEL-LP-732-NWL	X-Histo



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<p>HUMAN BODY TISSUE AND FLUIDS (cont'd)</p> <p>In house preparations of 10% Neutral Buffered Formalin fixed tissue processed to paraffin wax (FFPE) tissue sections.</p>	<p><u>Histopathological examinations for the purpose of clinical diagnosis (cont'd)</u></p>	<p>In-house documented methods for macroscopic and microscopic examination incorporating manufacturer's instructions where relevant for dissection, processing, embedding, staining and reporting:</p>	<p>C-MOHS</p> <p>X-Histo</p>
	Special staining of Histopathology examinations to assist in detection of clinical abnormalities:	Automated routine staining - Thermo Scientific Linistat Linear Stainer:	
		Mohs - CEL-LP-459-C	
		<u>Manual techniques:</u>	
	Acid mucins	Alcian Blue - CEL-LP-064-NWL	
	Acid and neutral mucins	Alcian Blue Diastase Periodic Acid Schiff - CEL-LP-445-NWL	
	Collagen/mallory bodies/giant mitochondria	Chromotrope Aniline Blue Stain - CEL-LP-069-NWL	
	Elastic fibres & connective tissue	Elastic Picro Sirius - CEL-LP-378-NWL	
	Haematopoietic cells	Giemsa Stain CEL-LP-383-NWL	
	Gram +/- organisms	Gram Stain - CEL-LP-077-NWL	
	Fibrin/connective tissue/muscle	Haematoxylin Van Gieson Stain - CEL-LP-082-NWL	
	Argentaffin/melanin	Masson Fontana Stain - CEL-LP-206-NWL	
	Helicobacter Pylori	Modified Giemsa Stain - CEL-LP-556-NWL	



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<p>HUMAN BODY TISSUE AND FLUIDS (cont'd)</p> <p>In house preparations of 10% Neutral Buffered Formalin fixed tissue processed to paraffin wax (FFPE) tissue sections. Fresh tissue.</p>	<p><u>Histopathological examinations for the purpose of clinical diagnosis (cont'd)</u></p> <p>Special staining of Histopathology examinations to assist in detection of clinical abnormalities (cont'd)</p> <p>Neutral mucins/polysaccharides/fungi/basement membranes/glycogen</p> <p>Haemosiderin/Iron</p> <p>Mast cell granules</p> <p>Calcium salts</p> <p><i>Mycobacterium leprae</i></p> <p><i>Mycobacterium</i> spp. including tuberculosis</p>	<p>In-house documented methods for macroscopic and microscopic examination incorporating manufacturer's instructions where relevant for dissection, processing, embedding, staining and reporting:</p> <p><u>Manual techniques (cont'd):</u></p> <p>Periodic Acid Schiff +/- Diastase Stain - CEL-LP-377-NWL</p> <p>Perls Stain - CEL-LP-053-NWL</p> <p>Toluidine Blue - CEL-LP-409-NWL</p> <p>Von Kossa - CEL-LP-231-NWL</p> <p>Wade Fite - CEL-LP-230-NWL</p> <p>Ziehl Neelson - CEL-LP-413-NWL</p>	X-Histo



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<p>HUMAN BODY TISSUE AND FLUIDS (cont'd)</p> <p>In house preparations of 10% Neutral Buffered Formalin fixed tissue processed to paraffin wax (FFPE) tissue sections (cont'd).</p>	<p><u>Histopathological examinations for the purpose of clinical diagnosis (cont'd)</u></p>	<p>In-house documented methods for macroscopic and microscopic examination incorporating manufacturer's instructions where relevant for dissection, processing, embedding, staining and reporting:</p>	
	Examination of tissues in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis	Sakura Tissue-Tek Film Automated Coverslipper. SOP: use and maintenance of Sakura Automated Coverlipping Machine - CEL-LP-114-NWL	X-Histo
		Automated special staining – Dako Artisan Link Pro - Artisan Staining System SOP, CEL-LP-739-NWL:	X-Histo
	Amyloid	Congo Red	
	Basement Membranes	Jones Hexamine Silver	
	Fungi	Grocott Methanamine Silver	
	Fibrin / Connective Tissue / Muscle	Masson Trichrome	
	Hepatitis B surface antigen/copper associated protein.	Orcein	
	Reticulin Fibres	Reticulin	
	Spirochetes / Helicobacter	Warthin and Starry	



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In house preparations of 10% Neutral Buffered Formalin fixed tissue processed to paraffin wax (FFPE) tissue sections (cont'd).	Examination of tissues in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd)	Manual Direct Skin Immunofluorescence: CEL -LP-298-NWL - IF: Receipt, freezing and Slides preparation and CEL-LP-356-NWL - Immunofluorescence Staining Using antibodies for:	X-Histo
Skin frozen sections	Bullous diseases, pemphigoid, LE - C3c complement	C3c	X-Histo
	Bullous diseases, pemphigoid, LE - Fibrinogen	Fibrinogen	X-Histo
	Bullous diseases, pemphigoid, LE - IgA alpha chain	IgA	X-Histo
	Bullous diseases, pemphigoid, LE - IgG gamma chain	IgG	X-Histo
	Bullous diseases, pemphigoid, LE - IgM mu chain	IgM	X-Histo



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HUMAN BODY TISSUE AND FLUIDS (cont'd)	<u>Histopathological examinations for the purpose of clinical diagnosis (cont'd)</u>		
In house preparations of frozen tissue sections	Identification of antigens at a subcellular level by means of fluorescent antibodies	<u>Manual immunofluorescence:</u> Renal IF Staining: CEL -LP-298-NWL - IF: Receipt, freezing and Slides preparation CEL-LP-356-NWL - Immunofluorescence Staining Using antibodies for:	X-Histo
	C1q complement	C1q	
	C3c complement	C3c	
	IgA alpha chain	IgA	
	IgG gamma chain	IgG	
	IgM mu chain	IgM	
	Light chain deposition	Kappa	
	Light chain deposition	Lambda	
		<u>Automated immunocytochemistry - Bond III:</u> Automated Immunocytochemistry for the Bond - CEL-LP-357-H Using antibodies for:	X-Histo
	Fetal liver cells, liver disease	a-fetoprotein	
	Anaplastic large cell lymphoma	ALK-1	



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	<p>AA-amyloidosis</p> <p>Androgen receptor</p> <p>Mantle cell lymphoma</p> <p>B and T cells in the mantle and marginal zone</p> <p>B and T cells in the mantle and marginal zone</p> <p>Nuclei of germinal B cells</p> <p>Epithelial cells</p>		



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	<p>Epithelial cells and fibroblasts</p> <p>B cells</p> <p>Complement activation</p> <p>Peritubular and glomerular capillaries</p> <p>Renal cell carcinomas</p> <p>Luminal surface of epithelial cells of the fallopian tube, endometrium and endocervix.</p> <p>Tumour cells in GI and pancreas carcinomas</p> <p>C-cells</p>		



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	Plasmacytoid dendritic cells	CD123	
	Plasma cells	CD138	
	Monocytes and macrophages	CD163	
	Pan T cells	CD2	
	Pan B cells	CD20	
	Follicular dendritic and mature B cells	CD21	
	B cells and EBV transformed B lymphoblasts	CD23	
	Marker for hairy cell leukemia and systemic mastocytosis	CD25	



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	T and B cells	CD45 (LCA)	
	T cells and some B cells	CD5	
	Neurons, glia, skeletal muscle and NK cells	CD56 (N-CAM)	
	NK cells	CD57 (Leu7)	
	Monocytes and macrophages	CD68 (PGM1)	
	T cells and NK cells	CD7	
	B cells	CD79a	
	Cytotoxic T cells	CD8	
	Intestinal epithelium	CDX2	
	Neuroendocrine cells	Chromogranin A	



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<p>HUMAN BODY TISSUE AND FLUIDS (cont'd)</p> <p>In house preparations of 10% Neutral Buffered Formalin fixed tissue processed to paraffin wax (FFPE) tissue sections (cont'd)</p>	<p><u>Histopathological examinations for the purpose of clinical diagnosis (cont'd)</u></p> <p>Examination of tissues in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd)</p> <p>Mast cells and GIST</p> <p>Overexpression in hematopoietic tumours</p> <p>Epithelial cells</p> <p>High molecular weight cytokeratin - basal cells</p> <p>Basal cells of squamous and glandular epithelium</p> <p>Epithelial cells</p> <p>Basal cells of squamous and some glandular epithelium</p> <p>Basal cells of complex epithelia</p> <p>Simple epithelium</p>	<p>In-house documented methods for macroscopic and microscopic examination incorporating manufacturer's instructions where relevant for dissection, processing, embedding, staining and reporting:</p> <p><u>Automated immunocytochemistry - Bond III:</u></p> <p>Automated Immunocytochemistry for the Bond - CEL-LP-357-H</p> <p>Using antibodies for:</p> <p>C-kit CD117</p> <p>C-Myc</p> <p>Cytokeratin AE1/AE3</p> <p>Cytokeratin 34BE12</p> <p>Cytokeratin 5</p> <p>Cytokeratin 8/18</p> <p>Cytokeratin 14</p> <p>Cytokeratin 17</p> <p>Cytokeratin 18</p>	<p>X-Histo</p>



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<p>HUMAN BODY TISSUE AND FLUIDS (cont'd)</p> <p>In house preparations of 10% Neutral Buffered Formalin fixed tissue processed to paraffin wax (FFPE) tissue sections (cont'd).</p>	<p><u>Histopathological examinations for the purpose of clinical diagnosis (cont'd)</u></p> <p>Examination of tissues in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd)</p>	<p>In-house documented methods for macroscopic and microscopic examination incorporating manufacturer's instructions where relevant for dissection, processing, embedding, staining and reporting:</p> <p><u>Automated immunocytochemistry - Bond III:</u></p> <p>Automated Immunocytochemistry for the Bond - CEL-LP-357-H</p> <p>Using antibodies for:</p>	X-Histo
	Epithelial cells	Cytokeratin 19	
	Gastric and intestinal epithelium, urothelium and Merkel cells	Cytokeratin 20	
	Glandular and transitional epithelium	Cytokeratin 7	
	Epithelial cells	Cytokeratin MNF116	
	Cytomegalovirus	Cytomegalovirus	
	Lymphatic endothelium	D2-40	
	Hairy cell Leukaemia	DBA 44	
	Smooth, skeletal and cardiac muscle	Desmin	
	GIST	DOG-1	
	Latent EBV RNA within B cells	EBER ISH	
	Epithelial tissue	E-cadherin	



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<p>HUMAN BODY TISSUE AND FLUIDS (cont'd)</p> <p>In house preparations of 10% Neutral Buffered Formalin fixed tissue processed to paraffin wax (FFPE) tissue sections (cont'd).</p>	<p><u>Histopathological examinations for the purpose of clinical diagnosis (cont'd)</u></p> <p>Examination of tissues in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd)</p>	<p>In-house documented methods for macroscopic and microscopic examination incorporating manufacturer's instructions where relevant for dissection, processing, embedding, staining and reporting:</p> <p><u>Automated immunocytochemistry - Bond III:</u></p> <p>Automated Immunocytochemistry for the Bond - CEL-LP-357-H</p> <p>Using antibodies for:</p>	X-Histo
	Epithelial cells	EMA	
	Dermatofibroma	Factor XIIIa	
	T cells	Fox P3	
	Gastrin producing cells in the stomach	Gastrin	
	Bladder carcinoma	Gata-3	
	Apocrine epithelia of skin and breast	GCDFP-15 (BRST2)	
	Astrocytes, Schwann cells, glial cells, satellite cells	GFAP (GA5)	
	Glucagon secreting cells	Glucagon	
	Cytotoxic T cells and NK cells	Granzyme B	



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<p>HUMAN BODY TISSUE AND FLUIDS (cont'd)</p> <p>In house preparations of 10% Neutral Buffered Formalin fixed tissue processed to paraffin wax (FFPE) tissue sections (cont'd).</p>	<p><u>Histopathological examinations for the purpose of clinical diagnosis (cont'd)</u></p> <p>Examination of tissues in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd)</p> <p>K light chain mRNA</p> <p>Helicobacter pylori in stomach</p> <p>Trophoblasts</p> <p>Adult and fetal liver</p> <p>HSV I</p> <p>HSV II</p> <p>Latent nuclear antigen protein</p> <p>Antigen presenting cells, B cells and some activated T cells</p>	<p>In-house documented methods for macroscopic and microscopic examination incorporating manufacturer's instructions where relevant for dissection, processing, embedding, staining and reporting:</p> <p><u>Automated immunocytochemistry - Bond III:</u></p> <p>Automated Immunocytochemistry for the Bond - CEL-LP-357-H</p> <p>Using antibodies for:</p> <p>Kappa (ISH)</p> <p>H. pylori</p> <p>HCG</p> <p>Hepatocyte/HepPar1</p> <p>Herpes simplex I</p> <p>Herpes simplex II</p> <p>HHV8</p> <p>HLA-DR</p>	<p>X-Histo</p>



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<p>HUMAN BODY TISSUE AND FLUIDS (cont'd)</p> <p>In house preparations of 10% Neutral Buffered Formalin fixed tissue processed to paraffin wax (FFPE) tissue sections (cont'd).</p>	<p><u>Histopathological examinations for the purpose of clinical diagnosis (cont'd)</u></p> <p>Examination of tissues in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd)</p>	<p>In-house documented methods for macroscopic and microscopic examination incorporating manufacturer's instructions where relevant for dissection, processing, embedding, staining and reporting:</p> <p><u>Automated immunocytochemistry - , Bond III:</u></p> <p>Automated Immunocytochemistry for the Bond - CEL-LP-357-H</p> <p>Using antibodies for:</p>	X-Histo
	Surface IgA alpha - Myeloma	IgA (BMT)	
	Surface IgD delta chains	IgD	
	Surface IgG gamma	IgG (BMT)	
	IgG4 positive plasma cells	IgG4	
	Surface IgM mu chains	IgM (BMT)	
	Ovarian granulosa cells, testicular sertoli and leydig cells	Inhibin	
	Beta cells of the islets of Langerans in pancreas	Insulin	
	Surface immunoglobulin on B cells	Kappa (Lymphoma)	



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<p>HUMAN BODY TISSUE AND FLUIDS (cont'd)</p> <p>In house preparations of 10% Neutral Buffered Formalin fixed tissue processed to paraffin wax (FFPE) tissue sections (cont'd).</p>	<p><u>Histopathological examinations for the purpose of clinical diagnosis (cont'd)</u></p> <p>Examination of tissues in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd)</p>	<p>In-house documented methods for macroscopic and microscopic examination incorporating manufacturer's instructions where relevant for dissection, processing, embedding, staining and reporting:</p> <p><u>Automated immunocytochemistry - , Bond III:</u></p> <p>Automated Immunocytochemistry for the Bond - CEL-LP-357-H</p> <p>Using antibodies for:</p> <p>Ki67 (K2)</p> <p>Lambda (ISH)</p> <p>Lambda (Lymphoma)</p> <p>Langerin</p> <p>Lef-1</p> <p>Mammaglobin</p> <p>Mast Cell Tryptase</p> <p>Mel Sp Ag (HMB45)</p> <p>Melan A</p>	<p>X-Histo</p>



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<p>HUMAN BODY TISSUE AND FLUIDS (cont'd)</p> <p>In house preparations of 10% Neutral Buffered Formalin fixed tissue processed to paraffin wax (FFPE) tissue sections (cont'd).</p>	<p><u>Histopathological examinations for the purpose of clinical diagnosis (cont'd)</u></p> <p>Examination of tissues in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd)</p> <p>Some lymphocytes, cortical thymocytes, granulosa cells of the ovary, Langerhans islet cells, sertoli cells</p> <p>Apical surfaces of epithelial cells in breast, GI, respiratory and GU tracts</p> <p>Goblet cells of the small intestine and colon, bronchus and salivary glands</p> <p>Gastric and tracheo-bronchial mucosa, primary ovarian mucinous carcinoma</p> <p>Antrum body and pyloric glands</p>	<p>In-house documented methods for macroscopic and microscopic examination incorporating manufacturer's instructions where relevant for dissection, processing, embedding, staining and reporting:</p> <p><u>Automated immunocytochemistry - Bond III:</u></p> <p>Automated Immunocytochemistry for the Bond - CEL-LP-357-H</p> <p>Using antibodies for:</p> <p>Mic-2</p> <p>MUC-1</p> <p>MUC-2</p> <p>MUC-5AC</p> <p>MUC-6</p>	<p>X-Histo</p>



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<p>HUMAN BODY TISSUE AND FLUIDS (cont'd)</p> <p>In house preparations of 10% Neutral Buffered Formalin fixed tissue processed to paraffin wax (FFPE) tissue sections (cont'd).</p>	<p><u>Histopathological examinations for the purpose of clinical diagnosis (cont'd)</u></p> <p>Examination of tissues in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd)</p> <p>Germinal centre B cells, plasma cells and activated T cells</p> <p>Precursors of granulocytes in BMT</p> <p>Skeletal and cardiac muscle</p> <p>Rhabdomyosarcoma</p> <p>Type II pneumocytes and lung adenocarcinoma</p> <p>Neurones, Neuronal processes, peripheral nerves and ganglion cells</p> <p>Neuroendocrine cells</p> <p>B cells</p> <p>Embryonic stem and germ cells</p>	<p>In-house documented methods for macroscopic and microscopic examination incorporating manufacturer's instructions where relevant for dissection, processing, embedding, staining and reporting:</p> <p><u>Automated immunocytochemistry - Bond III:</u></p> <p>Automated Immunocytochemistry for the Bond - CEL-LP-357-H</p> <p>Using antibodies for:</p> <p>MUM1</p> <p>Myeloperoxidase</p> <p>Myoglobin</p> <p>Myo D1</p> <p>Napsin A</p> <p>Neurofilaments</p> <p>NSE</p> <p>OCT-2</p> <p>OCT 3/4</p>	<p>X-Histo</p>



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<p>HUMAN BODY TISSUE AND FLUIDS (cont'd)</p> <p>In house preparations of 10% Neutral Buffered Formalin fixed tissue processed to paraffin wax (FFPE) tissue sections (cont'd).</p>	<p><u>Histopathological examinations for the purpose of clinical diagnosis (cont'd)</u></p> <p>Examination of tissues in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd)</p> <p>HPV</p> <p>P40 protein in squamous cell carcinomas</p> <p>Tumour suppressor protein</p> <p>Basal cells</p> <p>Prostate adenocarcinoma</p> <p>Chief cells in the parathyroid gland</p> <p>B cells</p> <p>Thyroid, renal cell carcinomas</p> <p>Activated T cells, B cells and myeloid cells</p>	<p>In-house documented methods for macroscopic and microscopic examination incorporating manufacturer's instructions where relevant for dissection, processing, embedding, staining and reporting:</p> <p><u>Automated immunocytochemistry - , Bond III:</u></p> <p>Automated Immunocytochemistry for the Bond - CEL-LP-357-H</p> <p>Using antibodies for:</p> <p>P16 (RTU)</p> <p>p40</p> <p>P53 (D07)</p> <p>P63</p> <p>P504S (AMACR)</p> <p>Parathyroid hormone</p> <p>Pax-5</p> <p>Pax-8</p> <p>PD1</p>	<p>X-Histo</p>



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<p>HUMAN BODY TISSUE AND FLUIDS (cont'd)</p> <p>In house preparations of 10% Neutral Buffered Formalin fixed tissue processed to paraffin wax (FFPE) tissue sections (cont'd).</p>	<p><u>Histopathological examinations for the purpose of clinical diagnosis (cont'd)</u></p> <p>Examination of tissues in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd)</p> <p>Cytotoxic T cells and NK cells</p> <p>Megakaryocytes</p> <p>Neuroendocrine cells</p> <p>Syncytiotrophoblasts</p> <p>Germ cell tumours</p> <p>Glandular epithelium in prostate</p> <p>Glandular epithelium in prostate</p> <p>Tumour suppressor protein</p> <p>Red cells and their precursors</p>	<p>In-house documented methods for macroscopic and microscopic examination incorporating manufacturer's instructions where relevant for dissection, processing, embedding, staining and reporting:</p> <p><u>Automated immunocytochemistry - , Bond III:</u></p> <p>Automated Immunocytochemistry for the Bond - CEL-LP-357-H</p> <p>Using antibodies for:</p> <p>Perforin</p> <p>PGP3 (CD61)</p> <p>PGP9.5</p> <p>Plac. Lactogen (PL)</p> <p>PLAP</p> <p>Pros acid phos (PAP)</p> <p>Prostate specific antigen (PSA)</p> <p>PTEN</p> <p>Ret40f/Glycophorin C</p>	<p>X-Histo</p>



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<p>HUMAN BODY TISSUE AND FLUIDS (cont'd)</p> <p>In house preparations of 10% Neutral Buffered Formalin fixed tissue processed to paraffin wax (FFPE) tissue sections (cont'd).</p>	<p><u>Histopathological examinations for the purpose of clinical diagnosis (cont'd)</u></p> <p>Examination of tissues in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd)</p> <p>Melanocytes, Langerhans cells, histiocytes, Schwann cells, apidocytes</p> <p>Enterochromaffin cells of the GI tract</p> <p>Smooth muscle cells, myofibroblasts and myoepithelial cells</p> <p>Pancreatic islets, delta cells in the antrum and duodenum</p> <p>Mantle cell lymphoma</p> <p>SV-40</p> <p>Neuroendocrine cells</p>	<p>In-house documented methods for macroscopic and microscopic examination incorporating manufacturer's instructions where relevant for dissection, processing, embedding, staining and reporting:</p> <p><u>Automated immunocytochemistry - , Bond III:</u></p> <p>Automated Immunocytochemistry for the Bond - CEL-LP-357-H</p> <p>Using antibodies for:</p> <p>S-100</p> <p>Serotonin</p> <p>Smooth Muscle Actin</p> <p>Somatostatin</p> <p>SOX-11</p> <p>SV-40 (Bk virus)</p> <p>Synaptophysin</p>	<p>X-Histo</p>



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<p>HUMAN BODY TISSUE AND FLUIDS (cont'd)</p> <p>In house preparations of 10% Neutral Buffered Formalin fixed tissue processed to paraffin wax (FFPE) tissue sections (cont'd).</p>	<p><u>Histopathological examinations for the purpose of clinical diagnosis (cont'd)</u></p> <p>Examination of tissues in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd)</p> <p>T cells</p> <p>Primitive T and B cells, thymocytes</p> <p>Thyroid follicular cells</p> <p>Treponema Pallidum</p> <p>Follicular epithelial cells of the thyroid, type II pneumocytes and Clara cells of the lung</p> <p>Hairy cell Leukaemia</p> <p>Fibroblasts, endothelial cells, smooth muscle and melanocytes</p>	<p>In-house documented methods for macroscopic and microscopic examination incorporating manufacturer's instructions where relevant for dissection, processing, embedding, staining and reporting:</p> <p><u>Automated immunocytochemistry - , Bond III:</u></p> <p>Automated Immunocytochemistry for the Bond - CEL-LP-357-H</p> <p>Using antibodies for:</p> <p>TCR-Beta F1</p> <p>Tdt</p> <p>Thyroglobulin</p> <p>Treponema Pallidum</p> <p>TTF-1</p> <p>TRAP</p> <p>Vimentin</p>	<p>X-Histo</p>



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<p>HUMAN BODY TISSUE AND FLUIDS (cont'd)</p> <p>In house preparations of 10% Neutral Buffered Formalin fixed tissue processed to paraffin wax (FFPE) tissue sections (cont'd_</p>	<p><u>Histopathological examinations for the purpose of clinical diagnosis (cont'd)</u></p> <p>Identification of cellular or tissue constituents (antigens) by means of antigen antibody interactions:</p> <p>Detection anaplastic lymphoma kinase (ALK) protein in NSCLC</p> <p>Identification of mutant protein BRAF V600E</p> <p>Estrogen receptor</p> <p>Heparan sulfate proteoglycan</p> <p>Cerb B2 in breast and GI</p> <p>Identification of mismatch repair protein</p> <p>Identification of mismatch repair protein</p> <p>Identification of mismatch repair protein</p> <p>Identification of mismatch repair protein</p>	<p>In-house documented methods for macroscopic and microscopic examination incorporating manufacturer's instructions where relevant for dissection, processing, embedding, staining and reporting:</p> <p><u>Automated Immunocytochemistry Ventana. CEL-LP-647-NWL</u></p> <p>Alk-1 (Lung)</p> <p>BRAF</p> <p>ER</p> <p>Glypican 3</p> <p>HER2</p> <p>MSH2 (25D12)</p> <p>MSH6</p> <p>MLH-1 (ES05)</p> <p>PMS 2</p>	<p>X-Histo</p>



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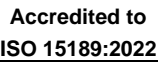
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<p>HUMAN BODY TISSUE AND FLUIDS (cont'd)</p> <p>In house preparations of 10% Neutral Buffered Formalin fixed tissue processed to paraffin wax (FFPE) tissue sections. (cont'd)</p>	<p><u>Histopathological examinations for the purpose of clinical diagnosis</u> (cont'd)</p> <p>Identification of cellular or tissue constituents (antigens) by means of antigen antibody interactions (cont'd):</p> <p>Trophoblastic disease</p> <p>Programme cell death ligand 1</p> <p>Progesterone receptor</p> <p>Renal Cell Carcinoma</p> <p>Squamous cell carcinoma</p> <p>Marker of embryonic stem cell pluripotency</p>	<p>In-house documented methods for macroscopic and microscopic examination incorporating manufacturer's instructions where relevant for dissection, processing, embedding, staining and reporting:</p> <p><u>Automated Immunocytochemistry Ventana. CEL-LP-647-NWL:</u></p> <p>P57</p> <p>PDL-1</p> <p>PR</p> <p>Renal Cell Carcinoma</p> <p>SALL-4</p> <p>SOX-2</p>	<p>X-Histo</p>



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HUMAN BODY TISSUE AND FLUIDS (cont'd)	<u>Cytopathology (Non-Gynae) examination activities for the purposes of clinical diagnosis</u> (cont'd)	In-house documented methods for macroscopic and microscopic examination incorporating manufacturer's instructions where relevant for preparation, staining and reporting:	X-Histo
Body Fluids (cont'd)	Examination of cellular material in order to identify or exclude morphological and cytological abnormalities (cont'd)	Manual techniques:	
	Demonstration of: Cells (nuclei and cytoplasm) and micro-organisms (cont'd)	Sample preparation - Hologic T2000: T2000 LBC Processor - Laboratory Equipment (General Use & Maintenance) - CEL-LP-419-NWL In the preparation of: Preparation of Anal & Vaginal LBC - CEL-LP-682-NWL Sample preparation - Thermo Cytospin 2, Shandon Heraeus Megafuge 40R: Cytospin - Laboratory Equipment (General Use & Maintenance) - CEL-LP-365-NWL Centrifuge - Laboratory Equipment (General Use & Maintenance) - CEL-LP-415-NWL Bronchoalveolar (BAL & Wash) - Specimen Preparation - CEL-LP-362-NWL Cerebrospinal Fluid (CSF) - Specimen Preparation - CEL-LP-363-NWL	



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HUMAN BODY TISSUE AND FLUIDS (cont'd)	<u>Cytopathology (Non-Gynae) examination activities for the purposes of clinical diagnosis</u> (cont'd)	In-house documented methods for macroscopic and microscopic examination incorporating manufacturer's instructions where relevant for preparation, staining and reporting:	
Body Fluids (cont'd)	Examination of cellular material in order to identify or exclude morphological and cytological abnormalities (cont'd)		
	Demonstration of: Cells (nuclei and cytoplasm) and micro-organisms (cont'd)	<u>Manual techniques:</u>	
		In the preparation of:	
		Serous & Miscellaneous Fluid - Specimen Preparation - CEL-LP-364-NWL	
		Urine - Specimen Preparation - CEL-LP-367-NWL	
		Sputum - Specimen Preparation - CEL-LP-368-NWL	
		Synovial Fluid - Preparation - CEL-LP-369-NWL	
		Fine Needle Aspiration Cytology - CEL-LP-282-NWL	
		Cell Block & Clot Processing of Cytology Specimens - CEL-LP-442-NWL	
		Papanicolaou & May Grünwald Giemsa Staining Methods - Cytology - CEL-LP-281-NWL	
		Taking and Reporting Fine Needle Aspirate CEL-CP-003-NWL Microscopy Screening and Reporting CEL-LP-284-NWL	X-Histo M-FNA



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HUMAN BODY TISSUE AND FLUIDS (cont'd)	<u>Cytopathology (Non-Gynae) examination activities for the purposes of clinical diagnosis</u> (cont'd)	In-house documented methods for macroscopic and microscopic examination incorporating manufacturer's instructions where relevant for preparation, staining and reporting: Interpretive/diagnostic microscopy - Olympus: BH2, BX41, BX45, BX50, BX51, BX40CY, BX 51XT, BX50F4 & BX51TF. Leitz: Laborlux K, Nikon: Eclipse 80i, Eclipse Ci-S, E600 & E400. Leica MZ8: Reporting - CEL-CP-032-IMP	X-Histo



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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 AND TISSUES Bone marrow, peripheral blood), bone marrow (lithium heparin), bone marrow (preservative-free heparin plus tissue culture medium), CSF, pleural effusions, ascetic fluid, fine needle aspirates (FNA), endobronchial ultrasound (EBUS), bronchoalveolar lavage (BAL), whole lymph nodes/tissue samples, rare fluids (e.g. vitreous fluids)	<u>Immunophenotyping examination procedures for the purposes of clinical diagnosis</u>	Documented in house methods and manufacturer's instructions for flow cytometry using BD FACS Canto	
	Examination of haematopoietic cells in order to identify the lineage and stage of maturation of the abnormal proliferating cells in the diagnosis and management of AML, ALL, LPD, MPD, CLL, MDS, MM, Non-Hodgkin lymphoma and PNH	<u>Manual sample preparation, sample set up, mixing of antibody cocktails</u>	
	Acute leukaemia screening	Immunophenotyping for Haematological Malignancies - CELP-LP-107-HMS Using antibodies for: CYT MPO, CD79a, CD34, CD19, CD7, smCD3, CYCD3, CD45	H-Immunop
	Classification of acute leukaemia	CD117, CD58, CD66c, CD10, CD38, CD20, NUC TDT, CYT U, CD22, CD9, smIg LAMBDA, smIg KAPPA, CD1a, CD42a/CD61, CD64, CD99, CD8, CD11b, CD300e, HLA-DR, CD14, CD71, CD235a, CD36, CD105, CD56, CD123, CD64, CD3, CD4, CD5, CD15	H-Immunop
	Chronic lymphoproliferative screening	CD8, smIg LAMBDA, smIg Kappa, CD56, CD5, CD19, TCR Gamma Delta, smCD3, CD38, CD20, CD4, CD45	H-Immunop
	Classification of chronic lymphoproliferative disorders	FMC7, CD10, CD23, CD79b, CD22, CD19, CD43, CD25, CD200, CD81, CD103, CD305, CD11c, CD27, CD49d, CD7, CD57, CD3, CD138, CD16, CYT Kappa, CYT Lambda, CD2, CD28, TCRA Alpha Beta, CD27, CD38	H-Immunop



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<p>HUMAN BODY FLUIDS (cont'd)</p> <p>Bone marrow (EDTA), peripheral blood (EDTA), bone marrow (lithium heparin), bone marrow (preservative-free heparin plus tissue culture medium), CSF, pleural effusions, ascetic fluid, fine needle aspirates (FNA), endobronchial ultrasound (EBUS), bronchoalveolar lavage (BAL), whole lymph nodes/tissue samples, rare fluids (e.g. vitreous fluids) (cont'd)</p>	<p><u>Immunophenotyping examination procedures for the purposes of clinical diagnosis (cont'd)</u></p> <p>Examination of haematopoietic cells in order to identify the lineage and stage of maturation of the abnormal proliferating cells in the diagnosis and management of AML, ALL, LPD, MPD, CLL, MDS, MM, Non-Hodgkin lymphoma and PNH (cont'd)</p> <p>Testing for the presence of PNH clones in Red blood cell and White blood cell populations:</p> <p>Red blood cells</p> <p>White blood cells</p>	<p>Documented in house methods and manufacturer's instructions for flow cytometry using BD FACS Canto</p> <p><u>Manual sample preparation, sample set up, mixing of antibody cocktails</u></p> <p><u>PNH Analysis:</u></p> <p>Detection of Paroxysmal Nocturnal Haemoglobinuria by Flow Cytometry - CELP-LP-106-HMS</p> <p>Using antibodies for: CD59 and CD235a</p> <p>FLAER, CD14, CD33, CD64, CD45, CD15, CD24</p>	<p>H-Immunop</p> <p>H-Immunop</p> <p>H-Immunop</p>



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HUMAN BODY FLUIDS / TISSUES / CELLULAR MATERIAL	<u>Molecular Diagnostics:</u> <u>DNA and RNA profiling for detection of abnormal sequences for clinical diagnosis</u>	Documented in house methods and manufacturer's instructions for molecular diagnostics	
Whole blood (EDTA) Bone Marrow (EDTA) Lyophilised cells	Sample processing for storage of cell lysate	QIAGEN Tissue Lyser CELP-LP-097-HMS	H-MOL
Whole blood (EDTA) Bone marrow (EDTA)	Mononuclear cell isolation	Lymphoprep cell isolation solution CELP-LP-090-HMS	H-MOL
Whole blood (EDTA) Bone marrow (EDTA)	CD3 T-cell separation	AutoMacs Pro CELP-LP-200-HMS	H-MOL
Whole blood (EDTA) Bone marrow (EDTA) Lymphoprep cell sample Cell lysate Lyophilised cells FFPE tissue CD3 T-cell separated sample	Extraction and storage of DNA and RNA	DNA & RNA Extraction - QIAasympohony, Eppendorf Micro-centrifuge - CELP-LP-164-HMS	H-OL
		Manual DNA Extraction from FFPE Tissue using QIAGEN QIAmp DNA FFPE Tissue kit CELP-LP-120-HMS	H-MOL
		Manual DNA extraction using the QIAGEN QIAmp DNA mini kit CELP-LP-093-HMS	H-MOL
		Manual RNA extraction using the QIAGEN RNeasy Mini kit CELP-LP-098-HMS	H-MOL
RNA extracted from sources as above	cDNA synthesis from RNA	cDNA synthesis using LunaScript Reverse Transcriptase CELP-LP-099-HMS	H-MOL



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HUMAN BODY FLUIDS / TISSUES / CELLULAR MATERIAL (cont'd)	<u>Molecular Diagnostics:</u> <u>DNA and RNA profiling for detection of abnormal sequences for clinical diagnosis (cont'd)</u>	Documented in house methods and manufacturer's instructions for molecular diagnostics	
cDNA prepared from sources as above	BCR::ABL1 translocation identification	Multiplex PCR using the QIAxcel Advanced analyser for capillary electrophoresis CELP-LP-096-HMS CELP-LP-104-HMS	H-MOL
	BCR::ABL1 TK Domain Mutation (TKD) Analysis – Sanger sequencing	In-house BCR::ABL1 TKD Sanger Sequencing using the Applied Biosystems 3500 XL DX analyser CELP-LP-103-HMS	
		Sanger Sequencing analysis using the Applied Biosystems SeqScape software CELP-LP-159-HMS	
cDNA prepared from peripheral blood or bone marrow	BCR::ABL1 tyrosine kinase domain (TKD) analysis - NGS	In-house BCR::ABL1 TKD NGS using the Illumina MiSeq analyser CELP-LP-218-HMS CELP-LP-227-HMS	H-MOL
cDNA prepared from peripheral blood or bone marrow	BCR::ABL1 e1a2 transcript quantitative monitoring (Minimal Residual Disease monitoring)	Thermofisher QuantStudio 5 RT-qPCR analyser using EAC modified e1a2 RT-qPCR assay and IDT synthetic dsDNA standards. CELP-LP-100-HMS CELP-LP-195-HMS	H-MOL
cDNA prepared from peripheral blood or bone marrow	BCR::ABL1 e19a2 transcript quantitative monitoring (Minimal Residual Disease Monitoring)	Thermofisher QuantStudio 5 RT-qPCR analyser using EAC modified e19a2 RT-qPCR assay and IDT synthetic dsDNA standards. CELP-LP-100-HMS CELP-LP-195-HM	H-MOL



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HUMAN BODY FLUIDS / TISSUES / CELLULAR MATERIAL (cont'd)	<u>Molecular Diagnostics:</u> <u>DNA and RNA profiling for detection of abnormal sequences for clinical diagnosis (cont'd)</u>	Documented in house methods and manufacturer's instructions for molecular diagnostics	
	BCR::ABL1 reporting	Reporting and communicating MRD results CELP-LP-102-HMS CELP-LP-088-HMS	H-MOL
DNA as prepared from whole blood (EDTA), Bone Marrow (EDTA), lyophilised cells, FFPE and lymphoprep sample from whole blood (EDTA) and bone marrow (EDTA)	Clonality assessment of suspected T- or B-Cell lymphoproliferative disorders: IGH and IGK B-cell clonality TCR Gamma clonality	Commercial kits (InVivoScribe IdentiClone) fragment analysis CELP-LP-091-HMS <u>Applied Biosystems</u> 3500 XL DX analyser CELP-LP091-HMS CELP-LP-088-HMS Data analysis using GeneMapper	H-MOL
DNA extracted from whole blood (EDTA) and bone marrow (ETA)	Assessment of AML prognostic markers FLT3 ITD FLT3 TKD NPM1 variant status		H-MOL
		FLT3 ITD and TKD variant analysis using LeukoStrat CDx FLT3 (Invivoscribe) Mutation Analysis kit Fragment analysis performed using Applied Biosystems 3500 XL DX analyser CELP-LP-163-HMS NPM1 variant analysis using in-house method and AllTaq Master Mix Kit for <i>NPM1</i> fragment analysis Fragment analysis performed using Applied Biosystems 3500 XL DX analyser CELP-LP-201-HMS Data analysis using GeneMapper CELP-LP-163-HMS CELP-LP-201-HMS CELP-LP-088-HMS	H-MOL



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HUMAN BODY FLUIDS / TISSUES / CELLULAR MATERIAL (cont'd)	<u>Molecular Diagnostics:</u> <u>DNA and RNA profiling for detection of abnormal sequences for clinical diagnosis (cont'd)</u>	Documented in house methods and manufacturer's instructions for molecular diagnostics	H-MOL
DNA from peripheral blood (EDTA), bone marrow (EDTA), lyophilised cells or CD3 T-cell separation	Chimerism Analysis	Powerplex 16HS Chimerism Assessment DNA Fragment Size Analysis using Capillary Electrophoresis Applied Biosystems 3500 XL DX analyser and PCR CELP-LP-158-HMS Chimerism analysis using ChimerMarker software CELP-LP-158-HMS CELP-LP-088-HMS	
DNA from peripheral blood (EDTA), bone marrow (EDTA) or lyophilised cells	MPN NGS Panel: Targeted capture of genes involved in Myeloproliferative Neoplasms: KRAS NRAS SRSF2 U2AF1	AmpliSeq for Illumina Library prep NGS sequencing using the Illumina MiSeq: CELP-LP-190-HMS MPN analysis using Illumina Connected Insights software CELP-LP-190-HMS CELP-LP-088-HMS	H-MOL
DNA from peripheral blood (EDTA), bone marrow (EDTA) or lyophilised cells	Myeloid NGS Panel: Targeted capture of genes involved in Myeloid Leukaemias and Myelodysplasia - detection of small sequence variation by NGS panel	Targeted gene capture using the ThermoFisher Oncomine Myeloid panel on the Ion Chef and S5 sequencer CELP-LP-203-HMS Myeloid NGS analysis using Ion reporter CELP-LP-208-HMS CELP-LP-088-HMS	H-MOL



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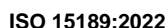
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<p>HUMAN BODY TISSUES / CELLULAR MATERIAL (cont'd)</p> <p>Glutaraldehyde fixed nerve, Glutaraldehyde fixed renal biopsies, Glutaraldehyde fixed duodenal biopsies, Glutaraldehyde fixed muscle biopsies, wax re-processed blocks and slides</p>	<p><u>Electronmicroscopic examinations for the purpose of clinical diagnosis</u></p> <p>Examination of tissues in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis</p>	<p>In-house documented methods for macroscopic and microscopic examination incorporating manufacturer's instructions where relevant for dissection, processing, embedding, staining and reporting:</p> <p><u>Tissue dissection & Sample preparation:</u></p> <p>Specimen dissection - CEL-LP-564-X</p> <p>Processing paraffin wax blocks for TEM - CEL-LP-583-X</p> <p>Reprocessing paraffin wax section for TEM - CEL-LP-584-X</p> <p>Followed by either:</p> <p><u>Manual sample processing:</u></p> <p>Routine Processing to Spurr Epoxy Resin - CEL-LP-576-X</p> <p>OR</p> <p><u>Automated sample processing - Leica EM TP:</u></p> <p>Automatic processing with two Leica processors - CEL-LP-587-X</p>	<p>X-EM</p> <p>X-EM</p> <p>X-EM</p> <p>X-EM</p> <p>X-EM</p>



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HUMAN BODY TISSUES / CELLULAR MATERIAL (cont'd)	<u>Cytogenetic examination for the purposes of clinical diagnosis</u>	In-house documented methods for examination incorporating manufacturer's instructions where relevant:	
Fixed cells from bone marrow, peripheral blood and CSF/ Paraffin Embedded Tissue (FFPE)	FISH analysis for the detection of structural chromosome rearrangements and copy number changes	Manual FISH slide preparation, pre-treatment and probe hybridisation using commercial probes: Thermobrite Hybridisation systems. Commercial FISH Probes from Metasystems, Cytocell and Kreatech. Cytogenetics FISH set-up CEL-LP-521-H	H-CytoG
		Cytogenetics Manual FFPE FISH - CEL-LP-529-H	H-CytoG
		FISH analysis using Zeiss Axio Imager M2 and ISIS (Metasystems) software	H-CytoG
		Use of Cytogenetic Imaging Systems - CEL-LP-714-H	
Bone marrow, peripheral blood		CD138+ cell enrichment in plasma cell myeloma prior to FISH: Automated cell separation using AutoMACS Pro Miltenyi Biotech CEL-LP-703-H	H-CytoG
		Reporting and Authorisation of G-Banding and FISH Reports in Cytogenetics CEL-LP-561-H	H-CytoG
		Guidelines for the Analysis of G-Banded chromosomes and fluorescence in situ hybridisation (FISH) samples from patients with haematological neoplasms - CEL-LP-693-H	H-CytoG
END			