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





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HSL (Analytics) LLP

Issue No: 010 Issue date: 15 May 2025

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
Formalin-fixed paraffin-embedded tissue (cont'd)	<u>Immunohistochemistry staining for the purpose of subsequent analysis by a referring laboratory for the epitopes listed:</u> 34BE12 ACTH AE1/AE3 AFP ALK (D5F3) ALK (5A4) AMACR (Racemase) AMACR/p63 cocktail Androgen Receptor Bcl-2 Bcl-6 BerEP4 Beta-catenin BOB-1 BCL-10 BRAF (V600E) CA125 CA19.9	Automated Immunohistochemistry using Leica Bond III, Ventana/Roche Ultra and Dako Autostainer 48 platforms Immunohistochemistry Automated methods using: HIS-60W0-11 HSL-AD, HIS-60W0-12 HSL-AD, HIS-60W0-13 HSL-AD, HIS-60W0-14 HSL-AD Leica Bond III, IHC Leica Bond III, IHC Leica Bond III, IHC Leica Bond III, IHC Ventana Ultra, IHC Leica Bond III, IHC Leica Bond III, IHC Leica Bond III, IHC Leica Bond III, IHC Leica Bond III, IHC Leica Bond III, IHC Leica Bond III, IHC Leica Bond III, IHC Ventana Ultra, IHC Leica Bond III, IHC Leica Bond III, IHC



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Formalin-fixed paraffin-embedded tissue (cont'd)	<u>Immunohistochemistry</u> (cont'd):	Automated Immunohistochemistry (cont'd)
	CA-IX	Leica Bond III, IHC
	Calcitonin	Leica Bond III, IHC
	Calponin	Leica Bond III, IHC
	Calretinin	Leica Bond III, IHC
	CAM 5.2	Leica Bond III, IHC
	CD10	Leica Bond III, IHC
	CD103	Leica Bond III, IHC
	CD117	Leica Bond III, IHC
	CD11c	Leica Bond III, IHC
	CD123	Leica Bond III, IHC
	CD138	Leica Bond III, IHC
	CD14	Leica Bond III, IHC
	CD15	Leica Bond III, IHC
	CD16	Leica Bond III, IHC
	CD163	Leica Bond III, IHC
	CD19	Leica Bond III, IHC
	CD1a	Leica Bond III, IHC
	CD2	Leica Bond III, IHC
	CD20	Leica Bond III, IHC
	CD21	Leica Bond III, IHC
	CD22	Leica Bond III, IHC
	CD23	Leica Bond III, IHC



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Formalin-fixed paraffin-embedded tissue (cont'd)	<u>Immunohistochemistry</u> (cont'd):	Automated Immunohistochemistry (cont'd)
	CD235a	Leica Bond III, IHC
	CD25	Leica Bond III, IHC
	CD3	Leica Bond III, IHC
	CD30	Leica Bond III, IHC
	CD31	Leica Bond III, IHC
	CD33	Leica Bond III, IHC
	CD34	Leica Bond III, IHC
	CD38	Leica Bond III, IHC
	CD4	Leica Bond III, IHC
	CD43	Leica Bond III, IHC
	CD45	Leica Bond III, IHC
	CD45RO	Leica Bond III, IHC
	CD5	Leica Bond III, IHC
	CD56	Leica Bond III, IHC
	CD57	Leica Bond III, IHC
	CD61	Leica Bond III, IHC
	CD68(KP1)	Leica Bond III, IHC
	CD68(PGM1)	Leica Bond III, IHC
	CD7	Leica Bond III, IHC
	CD79a	Leica Bond III, IHC
	CD8	Leica Bond III, IHC
	CD99	Leica Bond III, IHC



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Formalin-fixed paraffin-embedded tissue (cont'd)	<u>Immunohistochemistry</u> (cont'd): CDX-2 CEA polyclonal CEA Chromogranin A Chymotrypsin CK8/18 CK14 CK17 CK19 CK20 CK5 CK7 CK8 CMV c-Myc Collagen IV COX-2 Cyclin D1 D240 DBA44 Desmin DOG-1	Automated Immunohistochemistry (cont'd) Leica Bond III, IHC



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Formalin-fixed paraffin-embedded tissue (cont'd)	<u>Immunohistochemistry</u> (cont'd):	Automated Immunohistochemistry (cont'd)
	E cadherin	Leica Bond III, IHC
	EBV	Leica Bond III, IHC
	EGFR (C36)	Ventana Ultra, IHC
	EGFR E746-A750	Ventana Ultra, IHC
	EGFR L858R	Ventana Ultra, IHC
	EMA	Leica Bond III, IHC
	ER (6F11)	Leica Bond III, IHC
	ER (Clone SP1)	Ventana Ultra, IHC
	ER (EP1)	Leica Bond III, IHC
	ERG	Ventana Ultra, IHC
	Factor VIII	Leica Bond III, IHC
	Factor XIIIa	Leica Bond III, IHC
	Fascin	Leica Bond III, IHC
	FSH	Leica Bond III, IHC
	Galectin 3	Leica Bond III, IHC
	Gastrin	Leica Bond III, IHC
	GATA3	Leica Bond III, IHC
	GCDFP-15	Leica Bond III, IHC
	GFAP	Leica Bond III, IHC
	GH	Leica Bond III, IHC
	Glucagon	Leica Bond III, IHC
	Glycophorin C	Leica Bond III, IHC



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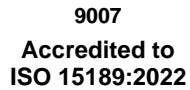
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Formalin-fixed paraffin-embedded tissue (cont'd)	<u>Immunohistochemistry</u> (cont'd):	Automated Immunohistochemistry (cont'd)
	Glypican 3	Leica Bond III, IHC
	Granzyme B	Leica Bond III, IHC
	H pylori	Leica Bond III, IHC
	Haemoglobin	Leica Bond III, IHC
	HBME-1	Leica Bond III, IHC
	h-caldesmon	Leica Bond III, IHC
	HCG	Leica Bond III, IHC
	Her-2	Ventana Ultra, IHC
	HMA (MSA)	Leica Bond III, IHC
	HMB45	Leica Bond III, IHC
	HSA (HepPar1)	Leica Bond III, IHC
	HSVI/HSVII cocktail	Leica Bond III, IHC
	IDH-1	Leica Bond III, IHC
	IgA	Leica Bond III, IHC
	IgD	Leica Bond III, IHC
	IgG	Leica Bond III, IHC
	IgM	Leica Bond III, IHC
	Inhibin	Leica Bond III, IHC
	Insulin	Leica Bond III, IHC
	Kappa (various dilutions)	Leica Bond III, IHC
	KSHV (HHV-8)	Leica Bond III, IHC
	Lambda (various dilutions)	Leica Bond III, IHC



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Formalin-fixed paraffin-embedded tissue (cont'd)	<u>Immunohistochemistry</u> (cont'd):	Automated Immunohistochemistry (cont'd)
	Neurofilament	Leica Bond III, IHC
	Neutrophil elastase	Leica Bond III, IHC
	NSE	Leica Bond III, IHC
	OCT-2	Leica Bond III, IHC
	OCT-3/4	Leica Bond III, IHC
	p16 INK4a	Ventana Ultra, IHC
	p40	Leica Bond III, IHC
	p53	Leica Bond III, IHC
	p57	Leica Bond III, IHC
	p63	Leica Bond III, IHC
	Parvovirus B19	Leica Bond III, IHC
	PAX-2	Leica Bond III, IHC
	PAX-8	Leica Bond III, IHC
	PD-L1 (22C3)	Dako Autostainer Link 48, IHC
	PD-L1 (Clone28-8)	Dako Autostainer Link 48, IHC
	PD-L1 (Clone SP142)	Ventana Ultra, IHC
	Perforin	Leica Bond III, IHC
	PGP 9.5	Leica Bond III, IHC
	PLAP	Leica Bond III, IHC
	PMS2	Leica Bond III, IHC
	PR	Leica Bond III, IHC
	Prolactin	Leica Bond III, IHC



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Formalin-fixed paraffin-embedded tissue (cont'd)	<u>Immunohistochemistry</u> (cont'd):	Automated Immunohistochemistry (cont'd)
	Prostein (P501s)	Leica Bond III, IHC
	PSA	Leica Bond III, IHC
	PSAP	Leica Bond III, IHC
	PTEN	Leica Bond III, IHC
	RCC	Leica Bond III, IHC
	ROS-1	Ventana Ultra, IHC
	S100	Leica Bond III, IHC
	SALL4	Leica Bond III, IHC
	SATB2	Leica Bond III, IHC
	Serotonin	Leica Bond III, IHC
	SMA	Leica Bond III, IHC
	SMM	Leica Bond III, IHC
	Somatostatin	Leica Bond III, IHC
	SOX-10	Leica Bond III, IHC
	SOX-11	Leica Bond III, IHC
	STAT6	Leica Bond III, IHC
	Synaptophysin	Leica Bond III, IHC
	TAL1B5 (HLA-DR)	Leica Bond III, IHC
	Tdt	Leica Bond III, IHC
	Thyroglobulin	Leica Bond III, IHC
	TRAP	Leica Bond III, IHC
	Trypsin	Leica Bond III, IHC



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Formalin-fixed paraffin-embedded tissue (cont'd)	<u>Immunohistochemistry</u> (cont'd): TSH TTF-1 Uroplakin II Uroplakin III Villin Vimentin VS38c VZV WT1 ZAP 70	Automated Immunohistochemistry (cont'd) Leica Bond III, IHC Leica Bond III, IHC Leica Bond III, IHC Leica Bond III, IHC Leica Bond III, IHC Leica Bond III, IHC Leica Bond III, IHC Leica Bond III, IHC Leica Bond III, IHC



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Formalin-fixed paraffin-embedded tissue (cont'd)	<p><u>Immunohistochemistry</u> (cont'd):</p> <p>In-situ hybridisation staining for the purpose of subsequent analysis by a referring laboratory for the epitopes listed:</p> <p>CMV</p> <p>EBER</p> <p>Kappa</p> <p>Lambda</p> <p>RNAscopeISH (Low and High-Risk HPV Genotype)</p>	<p>Automated Immunohistochemistry (cont'd)</p> <p>Automated in-situ hybridisation using Leica Bond III and Ventana/Roche Ultra platforms</p> <p>In-situ hybridisation Automated methods using: HIS-60W0-11 HSL-AD, HIS-60W0-12 HSL-AD, HIS-60W0-13 HSL-AD, HIS-60W0-14 HSL-AD</p> <p>Leica Bond III, CISH</p> <p>Leica Bond III, CISH</p> <p>Leica Bond III, CISH</p> <p>Leica Bond III, CISH</p> <p>Leica Bond III, CISH</p>



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Formalin-fixed paraffin-embedded tissue (cont'd)	<p><u>Immunohistochemistry</u> (cont'd):</p> <p>In-situ hybridisation stained tissue to detect the presence or absence of targets listed:</p> <p>ALK breakapart</p> <p>BCL2 breakapart</p> <p>BCL2:IGH fusion</p> <p>BCL6 breakapart</p> <p>CCND1 breakapart</p> <p>CDK4/CEN12</p> <p>DUSP22</p> <p>DDIT3</p> <p>ETV6</p> <p>FGFR1 amplification</p> <p>FGFR2 amplification</p>	<p>Automated Immunohistochemistry (cont'd)</p> <p>Semi-automated fluorescent in-situ hybridisation using Abbott Molecular VP2000 platform Interpretation by manual fluorescent microscopy and semi-automated BioView system</p> <p>Fluorescent in-situ hybridisation Semi-automated methods using: HIS-60W0-17 HSL-AD, HIS-60W0-19 HSL-AD, HIS-60W0-23 HSL-AD</p> <p>VP2000, Manual/BioView Reporting</p> <p>VP2000, Manual/BioView Reporting</p> <p>VP2000, Manual/BioView Reporting</p> <p>VP2000, Manual/BioView Reporting</p> <p>VP2000, Manual/BioView Reporting</p> <p>VP2000, Manual/BioView Reporting</p> <p>VP2000, Manual/BioView Reporting</p> <p>VP2000, Manual/BioView Reporting</p> <p>VP2000, Manual/BioView Reporting</p> <p>VP2000, Manual/BioView Reporting</p>



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Formalin-fixed paraffin-embedded tissue (cont'd)	<u>Immunohistochemistry</u> (cont'd): In-situ hybridisation stained tissue to detect the presence or absence of targets listed (cont'd): FGFR2 breakapart HER2 amplification IGH breakapart IGH/BCL2 IGL IGK IRF4 MAML2 MALT breakapart MDM2/CEP12 Melanoma FISH MET amplification MYB MYC breakapart MYC:IGH fusion	Automated Immunohistochemistry (cont'd) Semi-automated fluorescent in-situ hybridisation using Abbott Molecular VP2000 platform Interpretation by manual fluorescent microscopy and semi-automated BioView system Fluorescent in-situ hybridisation Semi-automated methods using: HIS-60W0-17 HSL-AD, HIS-60W0-19 HSL-AD, HIS-60W0-23 HSL-AD VP2000, Manual Reporting VP2000, Manual/BioView Reporting VP2000, Manual/BioView Reporting VP2000, Manual/BioView Reporting VP2000, Manual/BioView Reporting VP2000, Manual/BioView Reporting VP2000, Manual/BioView Reporting VP2000, Manual/BioView Reporting VP2000, Manual/BioView Reporting VP2000, Manual/BioView Reporting VP2000, Manual/BioView Reporting VP2000, Manual/BioView Reporting VP2000, Manual/BioView Reporting



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Formalin-fixed paraffin-embedded tissue (cont'd)	<u>Immunohistochemistry</u> (cont'd): In-situ hybridisation stained tissue to detect the presence or absence of targets listed (cont'd): NTRK1 NTRK2 NTRK3 ROS1 breakapart NUTM1 PDGFB RET TFE3	Automated Immunohistochemistry (cont'd) Semi-automated fluorescent in-situ hybridisation using Abbott Molecular VP2000 platform Interpretation by manual fluorescent microscopy and semi-automated BioView system Fluorescent in-situ hybridisation Semi-automated methods using: HIS-60W0-17 HSL-AD, HIS-60W0-19 HSL-AD, HIS-60W0-23 HSL-AD VP2000, Manual/BioView Reporting VP2000, Manual/BioView Reporting VP2000, Manual/BioView Reporting VP2000, Manual/BioView Reporting VP2000, Manual/BioView Reporting VP2000, Manual/BioView Reporting VP2000, Manual/BioView Reporting



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Formalin-fixed paraffin-embedded tissue (cont'd)	<p>Morphological assessment and interpretation/diagnosis limited to the following antigenic targets:</p> <p>ALK IHC</p> <p>BRAF (V600E)</p> <p>Her-2 IHC</p> <p>ER IHC</p> <p>ER (Clone SP1) IHC</p> <p>PD-L1 (Clone 28-8)</p> <p>PD-L1 (clone SP142)</p> <p>PR IHC</p> <p>p16 IHC</p> <p>EGFR IHC</p> <p>EGFR Mutation specific IHC</p> <p>MMR (<u>Mis</u><u>Match</u> <u>Repair</u>) IHC</p> <p>PD-L1 (22C3) IHC</p> <p>ROS-1</p>	<p>Microscopy (qualitative analysis) and reporting</p> <p>Morphological and immunohistochemistry.in-situ hybridisation assessment of tissue</p> <p>Clinical interpretation of IHC by Consultant Histopathologist</p> <p>Clinical interpretation of IHC by Consultant Histopathologist</p> <p>Clinical interpretation of IHC by Consultant Histopathologist</p> <p>Clinical interpretation of IHC by Consultant Histopathologist</p> <p>Clinical interpretation of IHC by Consultant Histopathologist</p> <p>Clinical interpretation of IHC by Consultant Histopathologist</p> <p>Clinical interpretation of IHC by Consultant Histopathologist</p> <p>Clinical interpretation of IHC by Consultant Histopathologist</p> <p>Clinical interpretation of IHC by Consultant Histopathologist</p> <p>Clinical interpretation of IHC by Consultant Histopathologist</p> <p>Clinical interpretation of IHC by Consultant Histopathologist</p> <p>Clinical interpretation of IHC by Consultant Histopathologist</p>



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Formalin-fixed paraffin-embedded tissue	<u>Molecular Testing</u> Detection of Human Papilloma Virus genotypes: 16, 18, 31, 33, 35, 39, 45, 51, 52, 56, 58, 59 26, 34, 53, 66, 67, 68a, 68b, 69, 70, 73, 82IS39, 82MM4 6, 11, 40, 42, 43, 44, 54, 55, 57, 61, 62, 72, 81CP8304, 83MM7, 84MM8, 90, 91	Tissue sectioning and macro-dissection using Leica Biocut microtomes SOP HIS-60W0-5 HSL-AD DNA extraction from FFPE using dry baths, Maxwell SC and Promega FFPE DNA extraction kit DNA quantification using Nanodrop One C Genotyping of HPV and risk rating using DNA extracted from FFPE and Proflex thermal cycler, VisionArray HPV Chip 1.0, Plustek Hydridiser, ZytoVision HPV PreCise Master Mix, Zytovision Vision Optic Array, Reader (Plustek Optic Film 8100) and Vision Array Analyzer software.
Formalin-fixed paraffin-embedded tissue	Detection and measurement of breast tumour gene expression profile	Prosigna Breast Cancer Prognostic Gene Signature Assay using RNA isolated from FFPE using the Roche FFPET RNA Isolation Kits with measurement by Nanodrop One C. PCR using Veriti Thermal Cycler, nanostring nCounter PrepStation and analysis using nCounter Analyser
END		