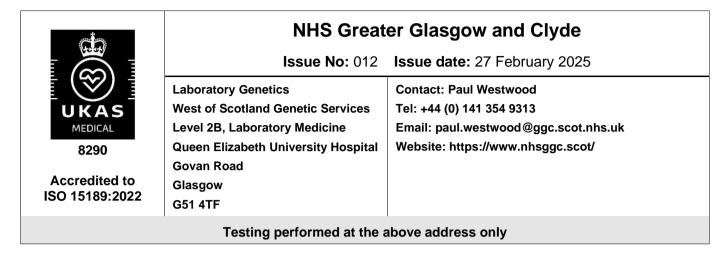
Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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



DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN TISSUE AND FLUIDS	Cytogenetic and Molecular Genetic examination activities for the purpose of genetic investigations	Documented in-house methods and commercial kits for automated and manual processing:
 A. Whole blood, mouth wash/ buccal cells, fresh tissue B. Amniotic fluid, chorionic villus C. Malignant tissue (tumour, FFPE, lymph node etc) D. Malignant fluid (bone marrow, CSF etc) E. Neonatal blood spots 		Using a combination of examination processes supported by the pre- examination techniques listed below
A, B, C, D, E		1. Process for the automated or manual extraction of DNA and RNA using Precellys, Leica microtomes, EZ1, QIAcube, QIAsymphony, Chemagic STAR, Maxwell 48 or Manual DNA extraction: EXAM- 425, EXAM-468
		2. Automated and manual cDNA preparation using commercial assay and Microlab STAR/STARIet automated platforms: EXAM-425
		3. Automated cell separation and cell counts using AutoMACS, MultiMACS and Sysmex XP-300: EXAM-425
		4. Quantitation by Nanodrop, Qubit, or 2100 Bioanalyser: EXAM-425

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HUMAN TISSUE AND FLU (cont'd)	IDS	<u>Cytogenetic and Molecular Genetic</u> <u>examination activities for the</u> <u>purpose of genetic investigations:</u>	Documented in-house methods and commercial kits for automated and manual processing:	
A, B, C, D, E		(cont'd)	5. PCR amplification of DNA and cDNA with commercial kits and in- house assays using Veriti and Proflex thermocyclers, ABI7500and COBAS z480 realtime instruments and Quant Studio digital PCR: EXAM-427	
			6. Robotic automation for pre and post PCR processing using Microlab STAR/STARIet: EXAM- 427, EXAM-428	
			7. Gel electrophoresis to separate DNA fragments, manual imaged using Syngene GeneFlash/ Ingenius3 and automated using 2100 Bioanalyzer: EXAM-427	
			8. Cell culture and harvesting of preparations for chromosome analysis, manual and automated (Hanabi harvester): EXAM-426	
			9. Slide staining for chromosome preparation and H&E, manual and automated (Varistain Gemini, ClearVue coverslipper): EXAM-426	
			10. FISH slide preparation, pre- treatment manual and automated (VIP2000) and probe hybridisation using commercial probes: EXAM- 431	
			11. Image capture for chromosome preparations and FISH (automated and manual) using Bioview image analysis system: EXAM- 426, EXAM-497	

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HUMAN TISSUE AND FLU (cont'd)	IDS	Cytogenetic and Molecular Genetic examination activities for the purpose of genetic investigations (cont'd)	Documented in-house methods and commercial kits for automated and manual processing:	
A, B, C, D, E			Using the following examination processes (pre-examination techniques shown in bold square brackets):	
			12. Sanger sequencing by capillary electrophoresis (ABI3730XL, Mutation Surveyor, Sequence Scanner, Alamut): EXAM-428 [1,4,5,6,7]	
			13. Fragment analysis using PCR (AS-PCR, ARMS, TP-PCR, RT- PCR etc) and quantitative PCR (Q- PCR, QF-PCR, MLPA, D-PCR) techniques by PyroMarkQ48, ABI35003730/7500/7900, COBAS 4800, QuantStudio, GeneMarker, 7500 System Software, ABI SDS software: EXAM-427 [1,2,3,4,5,6,7]	
			14. Next Generation sequencing using various commercial kits for library generation (MiSeq, NextSeq500/550, Biomedical Genomics Workbench, Congenica, Alamut): EXAM-429 [1,4,5,6]	
			15. Genomic profiling using 180kb Illumina Global Screening Array:EXAM-430 [1,4,6]	
			16. G banded bright field analysis and karyotyping (Bioview Duet System: EXAM-426 [3,8,9,10,13]	
			17. Fluorescence in situ hybridisation (FISH) microscopy for signal detection and analysis (Bioview Duet System): EXAM-497, EXAM-507, EXAM-524 [3,8,9,11,12,13]	

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HUMAN TISSUE AND FLUID (cont'd)	S <u>Cytogenetic and Molecular Genetic</u> <u>investigations for the detection of</u> <u>germline mutations and genomic</u> <u>imbalance related to the following</u> :	Documented in-house methods and commercial kits for automated and manual processing (examination processes shown in bold square brackets)	
А, В	Aneuploidy testing for common trisomies (T13, T18, T21, X and Y)	EXAM-448, EXAM-453, [13, 16]	
A	Angelman Syndrome	EXAM-145, [12,13]	

Becker Muscular Dystrophy

accumulation (CE subpanel)

Breast and Ovarian cancer

Breast, ovarian and colorectal

gene panel)

panel)

CADASIL

subpanel)

abnormalities

CHARGE Syndrome

Beckwith-Weidemann Syndrome

Neurodegeneration with Brain Iron

Breast Cancer (hereditary) (NGS, 8

(hereditary) (NGS, 14 gene panel)

cancer (hereditary) (NGS, 22 gene

Chondrodysplasia Punctata (CE

Chromosome investigation for

inherited and congenital

Cowden Syndrome

EXAM-115, [12,13]

EXAM-140, [13]

EXAM-491 [12,14]

EXAM-147, [12,13,14]

EXAM-147 [12,13,14]

EXAM-147 [12,13,14]

EXAM-153, [12]

EXAM-161, [12,13]

EXAM-491 [12,14]

EXAM-147, [12,13]

17]

EXAM- 448, EXAM-453 [13, 15, 16

Α, Β

А

А

А

А

А

А

А

Α, Β

Α, Β

А

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Materials/Products test	ed Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	
HUMAN TISSUE AND FLUI (cont'd)	DS <u>Cytogenetic and Molecular Genetic</u> investigations for the detection of germline mutations and genomic imbalance related to the following: (cont'd)	Documented in-house methods and commercial kits for automated and manual processing (examination processes shown in bold square brackets)	

	measured/Range of measurement	Equipment/Techniques used
HUMAN TISSUE AND FLUIDS (cont'd)	Cytogenetic and Molecular Genetic investigations for the detection of germline mutations and genomic imbalance related to the following: (cont'd)	Documented in-house methods and commercial kits for automated and manual processing (examination processes shown in bold square brackets)
А, В, Е	Cystic Fibrosis, including; • CFTR-related disorders using Devyser CFTR68 kit EXAM-449, EXAM-527 [1	
А	Developmental delay, including; • Fragile X syndrome	EXAM-451, [13,15,16]
A	DICER1 syndrome (CE)	EXAM-298 [12]
А, В	DiGeorge Syndrome	EXAM-372, [13]
A	Dilated Cardiomyopathy	EXAM-455, [12,13]
A	Disorders of Sexual Development (NGS, 56 gene panel)	EXAM-402, [12,14]
A	Dihydropyrimidine Dehydrogenase (DPYD)	EXAM – 495 [13]
А, В	Duchenne Muscular Dystrophy	EXAM-115, [12,13]
А, В	Epilepsy (NGS, 104 gene panel)	EXAM-126, EXAM-296 [12,13,14]
A	Episodic ataxia type 1 & type 2 (KCNA1 and CACNA1A)	EXAM-337, [12]
A	Familial Hemiplegic Migraine (FHM) (NGS, 5 gene panel)	EXAM-296 [12,14]
A	Fertility investigations, including;Y deletions	EXAM-450, [13,16]
А, В	Fibrodysplasia Ossificans Progressiva	EXAM-141, [12]
A	Rhabdomyolysis (CE Subpanel)EXAM-491 [12,14]Arthrogryposis	

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HUMAN TISSUE AND FLUI (cont'd)	DS	Cytogenetic and Molecular Genetic investigations for the detection of germline mutations and genomic imbalance related to the following: (cont'd)	Documented in-house methods and commercial kits for automated and manual processing (examination processes shown in bold square brackets)

Peripheral neuropathy (CE

SMA/dHMN (CE Subpanel)

Fragile X syndrome, including;

Gorlin Syndrome (CE subpanel)

Hereditary Ataxia (CE subpanel)

Hereditary Spastic Paraplegia (CE

Hereditary Haemochromatosis

FXTAS

POF

FMR1-related disorders

Subpanel)

Rhabdoid tumour

Osteochondromas

Osteopetrosis

•

•

•

(HFE related)

subpanel

EXAM-491 [12,14]

EXAM-154, [12,13, 14]

EXAM-160, [12,13]

EXAM-147, [12,13]

EXAM-46, [13]

EXAM-102, [13]

Limb Girdle Muscular Dystrophy
type 2I FKRP and 2REXAM-455, [12]Limb Girdle Muscular Dystrophy 1B
laminopathyEXAM-455, [12,13]Malignant Melanoma (hereditary)EXAM-147, [12, 14]

(NGS, 5 gene panel)

Lesch Nyhan Syndrome

Li-Fraumeni Syndrome

А

А

А

A

А

А

А

А

А

A, B

Α, Β

Α, Β

А

А

A, B

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HUMAN TISSUE AND FLUIDS (cont'd)		Cytogenetic and Molecular Genetic nvestigations for the detection of germline mutations and genomic mbalance related to the following:	Documented in-house methods and commercial kits for automated and manual processing (examination

	imbalance related to the following: (cont'd)	processes shown in bold square brackets)
A	Medium-chain acyl-coenzyme A dehydrogenase deficiency (MCADD)	EXAM-477 [12]
А, В	Microdeletion/Microduplication syndromes	EXAM-451, [13]
А, В	Myotonic Dystrophy (type 1)	EXAM-103, [13]
A	Ovarian Cancer (hereditary) (NGS, 8 gene panel)	EXAM-147, [12, 13, 14]
A	Pancreatic Cancer (hereditary) 9 gene panel	EXAM-147 [12,13,14]
A	Phenylketonuria	EXAM-168, [12,13]
A	Prader Willi Syndrome	EXAM-145, [12]
A	Respiratory Disease (CE subpanel)	EXAM-491 [12,14]
A	Pregnancy loss	EXAM-452, [15, 16, 17]
А, В	Prenatal diagnosis	EXAM-453, [15, 16, 17]
А, В	Rett and Rett-like Syndrome	EXAM-126, [12,13]
A	Sex determination	EXAM-448, [13,16]
A	Short Stature, including:Turner syndromeSHOX related	EXAM-448, [12,13,16,17]
А, В, Е	Sickle Cell Anaemia	EXAM-44, [13]
А	Silver Russell Syndrome	EXAM-140, [13]

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HUMAN TISSUE AND FLUII (cont'd)	investigations somatic mutat	nd Molecular Genetic for the detection of ions and genomic ated to the following:	Documented in-house methods and commercial kits for automated and manual processing (examination processes shown in bold square brackets)
А, В	Smith-Lemli-C	pitz Syndrome	EXAM-172, [12]
A	Thiopurine me (TPMT)	thyltransferase	EXAM-506, [12]
A	X-inactivation	Studies	EXAM-406, [13]
A, C, D	(ALL), includin ■ Minimal (MRD) ■ Paediate	oblastic Leukaemia ng: residual disease ric ALL (including. croarray)	EXAM-433, [12,13, 15, 16,17]
A, C, D		Leukaemia (AML)/ ic Syndrome (MDS)	EXAM-434, [12, 13, 14,16,17] EXAM-443, [12, 13, 14, 16,17]

EXAM-349, [17]

EXAM-435, **[6,13]**

EXAM-436, **[12,13, 14]** EXAM-530 **[13]**

EXAM-437, **[12,13, 14, 17]** EXAM-529 **[13]**

EXAM-534 [17]

Gastro-oesophageal cancer • Gastric Her-2

Breast Cancer (acquired)

Colorectal Cancer (acquired)

Brain and CNS Cancer (including

1p36/1q25 and 19q13/19p13 IDH1/IDH2 and BRAF

MGMT promoter methylation in

analysis

Glioma) including;

MLH1 promoter methylation

Chimerism analysis

including;

•

Glioma

С

А

С

С

С

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HUMAN TISSUE AND FLUI (cont'd)	DS	Cytogenetic and Molecular Genetic investigations for the detection of somatic mutations and genomic imbalance related to the following: (cont'd)	Documented in-house methods and commercial kits for automated and manual processing (examination processes shown in bold square brackets)
с		FOXL2 for adult granulosa cell tumours	EXAM-528 [12]
A, C, D		Haematological Malignancy, not	EXAM-438, [12, 14, 16,17]

A, C, D	Haematological Malignancy, not otherwise specified	EXAM-438, [12, 14, 16,17]
A, C, D	Lung Cancer, Non-Small Cell (acquired) including; ALK1 ROS1	EXAM-439, [12,13, 14, 17]
A, C, D	 Lymphoproliferative Neoplasms (LPN), including: Chronic Lymphocytic Leukaemia (CLL) Lymphoma Myeloma Waldenströms macroglobulinaemia 	EXAM-440, [12,13,16,17]
	Malignant Melanoma (acquired), including; Uveal Melanoma	EXAM-441, [12, 14, 17]
A, C, D	Mesothelioma	EXAM-442, [17]
A, D	 Myeloproliferative Disorders (MPD), including; Chronic Myeloid Leukaemia (CML) Polycythaemia Vera Essential Thrombocythaemia Myelofibrosis 	EXAM-444, [12,13, 14, 16,17]

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HUMAN TISSUE AND FLUIDS (cont'd)		Cytogenetic and Molecular Genetic investigations for the detection of somatic mutations and genomic imbalance related to the following: (cont'd)	Documented in-house methods and commercial kits for automated and manual processing (examination processes shown in bold square brackets)	
С		Ovarian cancer; • Somatic NGS, 2 gene panel (BRCA1, BRCA2) using QIAseq kit	EXAM-414 [14]	

END

Solid Tumours, not otherwise

 Somatic NGS, 2 gene panel (BRCA1, BRCA2) using QIAseq kit EXAM-414 [14]

EXAM-446, [13,16,17]

EXAM-445, [14, 16,17]

Prostate cancer;

Sarcoma

specified

С

С

С