


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>Accredited to ISO 15189:2022</p>	<h3>NHS Greater Glasgow and Clyde</h3> <p>Issue No: 014 Issue date: 25 September 2025</p>	
	<p>Laboratory Genetics West of Scotland Genetic Services Level 2B, Laboratory Medicine Queen Elizabeth University Hospital Govan Road Glasgow G51 4TF</p>	<p>Contact: Paul Westwood Tel: +44 (0) 141 354 9313 E-Mail: paul.westwood@nhs.scot Website: https://www.nhsggc.scot/laboratory-genetics</p>
<p>Testing performed at the above address only</p>		

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
<p>HUMAN TISSUE AND FLUIDS</p> <p>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) Neonatal blood spots</p> <p>A, B, C, D, E</p>	<p><u>Cytogenetic and Molecular Genetic examination activities for the purpose of genetic investigations</u></p>	<p>Documented in-house methods and commercial kits for automated and manual processing:</p> <p>Using a combination of examination processes supported by the pre-examination techniques listed below</p> <ol style="list-style-type: none"> 1. Process for the automated or manual extraction of DNA and RNA using Precellys, Leica microtomes, EZ1, QIAcube, QIASymphony, Chemagic PRIME, Maxwell 48 or Manual DNA extraction: EXAM-425, EXAM-468 2. Automated and manual cDNA preparation using commercial assay and Microlab STAR/STARlet 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



8290
Accredited to
ISO 15189:2022

Schedule of Accreditation
issued by
United Kingdom Accreditation Service
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

NHS Greater Glasgow and Clyde
Issue No: 014 Issue date: 25 September 2025

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
<p>HUMAN TISSUE AND FLUIDS (cont'd)</p> <p>A, B, C, D, E</p>	<p><u>Cytogenetic and Molecular Genetic examination activities for the purpose of genetic investigations:</u> (cont'd)</p>	<p>Documented in-house methods and commercial kits for automated and manual processing:</p> <p>5. PCR amplification of DNA and cDNA with commercial kits and in-house assays using Veriti and Proflex thermocyclers, ABI7500 and COBAS z480 realtime instruments and Quant Studio digital PCR: EXAM-427</p> <p>6. Robotic automation for pre and post PCR processing using Microlab STAR/STARlet: EXAM-427, EXAM-428</p> <p>7. Gel electrophoresis to separate DNA fragments, manual imaged using Syngene GeneFlash/ Ingenius3 and automated using 2100 Bioanalyzer: EXAM-427</p> <p>8. Cell culture and harvesting of preparations for chromosome analysis by manual processes : EXAM-426</p> <p>9. Slide staining for chromosome preparation and H&E automated using (Varistain Gemini, ClearVue coverslipper): EXAM-426</p> <p>10. FISH slide preparation, pre-treatment manual and automated (VIP2000) and probe hybridisation using commercial probes: EXAM-431</p> <p>11. Image capture for chromosome preparations and FISH (automated and manual) using Bioview image analysis system: EXAM- 426, EXAM-497</p>



8290
Accredited to
ISO 15189:2022

Schedule of Accreditation
issued by
United Kingdom Accreditation Service
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

NHS Greater Glasgow and Clyde
Issue No: 014 Issue date: 25 September 2025

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
<p>HUMAN TISSUE AND FLUIDS (cont'd)</p> <p>A, B, C, D, E</p>	<p><u>Cytogenetic and Molecular Genetic examination activities for the purpose of genetic investigations</u> (cont'd)</p>	<p>Documented in-house methods and commercial kits for automated and manual processing:</p> <p>Using the following examination processes (pre-examination techniques shown in bold square brackets):</p> <p>12. Sanger sequencing by capillary electrophoresis (ABI3730XL, Mutation Surveyor, Sequence Scanner, Alamut): EXAM-428 [1,4,5,6,7]</p> <p>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, ABI3500/3730/7500/, COBAS 4800, QuantStudio, GeneMarker, 7500 System Software, ABI SDS software: EXAM-427 [1,2,3,4,5,6,7]</p> <p>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]</p> <p>15. Genomic profiling using 180kb Illumina Global Screening Array (iSCAN, NxClinical):EXAM-430 [1,4,6]</p> <p>16. G banded bright field analysis and karyotyping (Bioview Duet System): EXAM-426 [3,8,9,10,13]</p> <p>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]</p>



8290
Accredited to
ISO 15189:2022

Schedule of Accreditation
issued by
United Kingdom Accreditation Service
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

NHS Greater Glasgow and Clyde
Issue No: 014 Issue date: 25 September 2025

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN TISSUE AND FLUIDS (cont'd)	<u>Cytogenetic and Molecular Genetic investigations for the detection of germline mutations and genomic 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)
A, B	Aneuploidy testing for common trisomies (T13, T18, T21, X and Y)	EXAM-448, EXAM-453, [13,16]
A, B	Angelman Syndrome	EXAM-145, [12,13]
A, B	Becker Muscular Dystrophy	EXAM-115, [12,13]
A	Beckwith-Weidemann Syndrome	EXAM-140, [13]
A	Neurodegeneration with Brain Iron accumulation (CE subpanel)	EXAM-491 [12,14]
A	Breast Cancer (hereditary) (NGS, 8 gene panel)	EXAM-147, [12,13,14]
A	Breast and Ovarian cancer (hereditary) (NGS, 14 gene panel)	EXAM-147 [12,13,14]
A	Breast, ovarian and colorectal cancer (hereditary) (NGS, 22 gene panel)	EXAM-147 [12,13,14]
A	CADASIL	EXAM-153, [12]
A, B	CHARGE Syndrome	EXAM-161, [12,13]
A	Chondrodysplasia Punctata (CE subpanel)	EXAM-491 [12,14]
A, B	Chromosome investigation for inherited and congenital abnormalities	EXAM- 448, EXAM-453 [13,15,16,17]
A	Cowden Syndrome	EXAM-147, [12,13]



8290
Accredited to
ISO 15189:2022

Schedule of Accreditation
issued by
United Kingdom Accreditation Service
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

NHS Greater Glasgow and Clyde
Issue No: 014 Issue date: 25 September 2025

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN TISSUE AND FLUIDS (cont'd)	<u>Cytogenetic and Molecular Genetic investigations for the detection of germline mutations and genomic imbalance related to the following:</u> (cont'd)	Documented in-house methods and commercial kits for automated and manual processing (examination processes shown in bold square brackets)
A, B, E	Cystic Fibrosis, including; CFTR-related disorders using Devyser CFTR68 kit	EXAM-449, EXAM-527 [13]
A	Developmental delay, including; Fragile X syndrome	EXAM-451, [13,15,16]
A	DICER1 syndrome (CE)	EXAM-298 [12,14]
A, B	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]
A, B	Duchenne Muscular Dystrophy	EXAM-115, [12,13]
A, B	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]
A, B	Fibrodysplasia Ossificans Progressiva	EXAM-141, [12]
A	Rhabdomyolysis (CE Subpanel)	EXAM-491 [12,14]
A	Arthrogyposis (CE Subpanel)	EXAM-491 [12,14]



8290

Accredited to
ISO 15189:2022

Schedule of Accreditation
issued by
United Kingdom Accreditation Service
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

NHS Greater Glasgow and Clyde
Issue No: 014 Issue date: 25 September 2025

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN TISSUE AND FLUIDS (cont'd)	<u>Cytogenetic and Molecular Genetic investigations for the detection of germline mutations and genomic imbalance related to the following:</u> (cont'd)	Documented in-house methods and commercial kits for automated and manual processing (examination processes shown in bold square brackets)
A	Peripheral neuropathy (CE Subpanel)	EXAM-491 [12,14]
A	SMA/dHMN (CE Subpanel)	EXAM-491 [12,14]
A	Rhabdoid tumour	EXAM-491 [12,14]
A	Osteopetrosis	EXAM-491 [12,14]
A	Osteochondromas	EXAM-491 [12,14]
A, B	Fragile X syndrome, including; <ul style="list-style-type: none"> • FMR1-related disorders • FXTAS POF	EXAM-102, [13]
A	Gorlin Syndrome (CE subpanel)	EXAM-491 [12,14]
A	Hereditary Ataxia (CE subpanel)	EXAM-491 [12,14]
A	Hereditary Haemochromatosis (HFE related)	EXAM-46, [13]
A	Hereditary Spastic Paraplegia (CE subpanel)	EXAM-154, [12,13,14]
A, B	Lesch Nyhan Syndrome	EXAM-160, [12,13]
A	Li-Fraumeni Syndrome	EXAM-147, [12,13]
A, B	Limb Girdle Muscular Dystrophy type 2I and 2R	EXAM-455, [12]
A, B	Limb Girdle Muscular Dystrophy 1B laminopathy	EXAM-455, [12,13]
A	Malignant Melanoma (hereditary) (NGS, 5 gene panel)	EXAM-147, [12,14]



8290
Accredited to
ISO 15189:2022

Schedule of Accreditation
issued by
United Kingdom Accreditation Service
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

NHS Greater Glasgow and Clyde
Issue No: 014 Issue date: 25 September 2025

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN TISSUE AND FLUIDS (cont'd)	<u>Cytogenetic and Molecular Genetic investigations for the detection of germline mutations and genomic imbalance related to the following:</u> (cont'd)	Documented in-house methods and commercial kits for automated and manual processing (examination processes shown in bold square brackets)
A	Medium-chain acyl-coenzyme A dehydrogenase deficiency (MCADD)	EXAM-477 [12]
A, B	Microdeletion/Microduplication syndromes	EXAM-451, [15]
A, B	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,B	Prader Willi Syndrome	EXAM-145, [12]
A	Respiratory Disease (CE subpanel)	EXAM-491 [12,14]
A	Pregnancy loss	EXAM-452, [15,16,17]
A, B	Prenatal diagnosis	EXAM-453, [15,16,17]
A, B	Rett and Rett-like Syndrome	EXAM-126, [12,13]
A	Sex determination	EXAM-448, [13,16]
A	Short Stature, including: <ul style="list-style-type: none"> • Turner syndrome SHOX related	EXAM-448, [12,13,16,17]
A, B, E	Sickle Cell Anaemia	EXAM-44, [13]
A	Silver Russell Syndrome	EXAM-140, [13]



8290
Accredited to
ISO 15189:2022

Schedule of Accreditation
issued by
United Kingdom Accreditation Service
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

NHS Greater Glasgow and Clyde
Issue No: 014 Issue date: 25 September 2025

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN TISSUE AND FLUIDS (cont'd)	<u>Cytogenetic and Molecular Genetic investigations for the detection of germline mutations and genomic imbalance related to the following:</u> (cont'd)	Documented in-house methods and commercial kits for automated and manual processing (examination processes shown in bold square brackets)
A, B	Smith-Lemli-Opitz Syndrome	EXAM-172, [12]
A	Thiopurine methyltransferase (TPMT)	EXAM-506, [12]
A	X-inactivation Studies	EXAM-406, [13]
A, C, D	<u>Cytogenetic and Molecular Genetic investigations for the detection of somatic mutations and genomic imbalance related to the following:</u> Acute Lymphoblastic Leukaemia (ALL), including: ▪ Minimal residual disease (MRD) Paediatric ALL (including. SNP microarray)	EXAM-433, [12,13,15,16,17]
A, C, D	Acute Myeloid Leukaemia (AML)/ Myelodysplastic Syndrome (MDS)	EXAM-434, [12,13,14,16,17] EXAM-443, [12,13,14,16,17]
C	Breast Cancer (acquired)	EXAM-349, [17]
A	Chimerism analysis	EXAM-435, [6,13]
C	Colorectal Cancer (acquired) including; MLH1 promoter methylation analysis	EXAM-436, [12,13,14] EXAM-530 [13]
C	Brain and CNS Cancer (including Glioma) including; 1p36/1q25 and 19q13/19p13 IDH1/IDH2 and BRAF MGMT promoter methylation in Glioma	EXAM-437, [12,13,14,17] EXAM-529 [13]



8290
Accredited to
ISO 15189:2022

Schedule of Accreditation
issued by
United Kingdom Accreditation Service
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

NHS Greater Glasgow and Clyde
Issue No: 014 Issue date: 25 September 2025

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN TISSUE AND FLUIDS (cont'd)	<u>Cytogenetic and Molecular Genetic investigations for the detection of germline mutations and genomic imbalance related to the following:</u> (cont'd)	Documented in-house methods and commercial kits for automated and manual processing (examination processes shown in bold square brackets)
C	Gastro-oesophageal cancer Gastric HER2	EXAM-534 [17]
C	Adult granulosa cell tumours FOXL2 variant analysis	EXAM-528 [12]
A, C, D	Haematological Malignancy, not otherwise specified	EXAM-438, [12,14,16,17]
A, C, D	Lung Cancer, Non-Small Cell (acquired); <ul style="list-style-type: none"> ▪ ALK1 ▪ ROS1 ▪ EGFR ▪ BRAF KRAS	EXAM-439, [12,13,14,17]
A, C, D	Lymphoproliferative Neoplasms (LPN), including: <ul style="list-style-type: none"> ▪ Chronic Lymphocytic Leukaemia (CLL) ▪ Lymphoma ▪ Myeloma Waldenströms macroglobulinaemia	EXAM-440, [12,13,16,17]
A, C, D	Malignant Melanoma <ul style="list-style-type: none"> ▪ BRAF ▪ KIT PDGFRA	EXAM-441, [12,14]



8290
Accredited to
ISO 15189:2022

Schedule of Accreditation
issued by
United Kingdom Accreditation Service
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

NHS Greater Glasgow and Clyde
Issue No: 014 Issue date: 25 September 2025

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
<p>HUMAN TISSUE AND FLUIDS (cont'd)</p> <p>A, C, D</p> <p>A, D</p>	<p><u>Cytogenetic and Molecular Genetic investigations for the detection of germline mutations and genomic imbalance related to the following:</u> (cont'd)</p> <p>Mesothelioma</p> <p>Myeloproliferative Disorders (MPD), including;</p> <ul style="list-style-type: none"> ▪ Chronic Myeloid Leukaemia (CML) ▪ Polycythaemia Vera ▪ Essential Thrombocythaemia <p>Myelofibrosis</p>	<p>Documented in-house methods and commercial kits for automated and manual processing (examination processes shown in bold square brackets)</p> <p>EXAM-442, [17]</p> <p>EXAM-444, [12,13,14,16,17]</p>



8290
Accredited to
ISO 15189:2022

Schedule of Accreditation
issued by
United Kingdom Accreditation Service
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

NHS Greater Glasgow and Clyde
Issue No: 014 Issue date: 25 September 2025

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN TISSUE AND FLUIDS (cont'd)	<u>Cytogenetic and Molecular Genetic investigations for the detection of somatic mutations and genomic imbalance related to the following:</u> (cont'd)	Documented in-house methods and commercial kits for automated and manual processing (examination processes shown in bold square brackets)
C	Ovarian cancer; Somatic NGS, 2 gene panel (BRCA1, BRCA2)	EXAM-414 [14]
C	Prostate cancer; Somatic NGS, 2 gene panel (BRCA1, BRCA2)	EXAM-414 [14]
C	Sarcoma	EXAM-446, [13,16,17]
C	Solid Tumours, not otherwise specified	EXAM-445, [14,16,17]
A, C	Uveal Melanoma (acquired)	EXAM-441, [17]
C, D	Endometrial tumour (2 gene panel) <ul style="list-style-type: none"> • POLE • TP53 	EXAM-343, [14]
	Thyroid tumour (6 gene panel) <ul style="list-style-type: none"> • RET • TERT • BRAF • HRAS • NRAS • KRAS 	EXAM-343, [14]
END		