


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 UKAS MEDICAL 8176 Accredited to ISO 15189:2022	Birmingham Women's and Children's NHS Foundation Trust	
	Issue No: 016 Issue date: 23 April 2026	
	Birmingham Women's Hospital Mindelsohn Way Edgbaston Birmingham B15 2TG	Contact: Carly Mogg Tel: +44 (0)121 333 9999 Ext. 4925 E-Mail: carly.mogg@nhs.net Website: www.bwc.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
Birmingham Women's Hospital West Midlands Genomics Laboratory Mindelsohn Way Edgbaston Birmingham B15 2TG Local contact Carly Mogg 0121 335 8036	Molecular Genetics

Site activities performed away from the locations listed above:

Location details	Activity
Birmingham Research Park Limited Institute of Research and Development Birmingham Research Park Vincent Drive Edgbaston Birmingham B15 2SQ Local contact Carly Mogg 0121 335 8036	Reporting



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DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN TISSUES AND BODY FLUIDS	Genomic analysis for the purpose of clinical diagnosis of rare disease and cancer	Documented in house procedures incorporating manufacturer's instructions (where relevant)
Whole Blood Bone Marrow	Sample processing, DNA/RNA extraction, quantification and quality check for subsequent in-house analysis (see below), referral to specialist centres and long term storage	Lineage specific cell separation Automated using Automacs Miltenyi Biotech autoMACS®Pro Separator SOP: PP 02.01.95
Whole Blood Bone Marrow Saliva (Oragene self collection kit) Plasma		Manual and automated DNA extraction and quantification using: Qiagen QIASymphony SP platform with: QIASymphony DNA Midi Kit QIASymphony DSP virus kit SOPs: PP 03.01.21 PP 03.01.13 PP 03.01.48
Whole Blood Bone Marrow		Qiagen QIAcube with Qiagen QIAamp DNA Blood Mini Kit SOP: PP 03.01.15



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HUMAN TISSUES AND BODY FLUIDS	Genomic analysis for the purpose of clinical diagnosis of rare disease and cancer	Documented in house procedures incorporating manufacturer's instructions (where relevant)
Dried Blood Spots	Sample processing, DNA extraction, quantification and quality check for subsequent in-house analysis (see below), referral to specialist centres and long term storage	DNA extraction using Promega Maxwell RSC instruments and Promega Maxwell RSC Blood kit and Promega Casework Extraction kit PP 03.01.64
MACS separated cell fractions Amniotic Fluid CVS	Sample processing, DNA extraction, quantification and quality check for subsequent in-house analysis (see below), referral to specialist centres and long term storage	DNA Extraction: Qiagen EZ1or EZ2 using EZ1&2 DNA Tissue Kit PP 03.01.08 PP 03.01.14 PP 03.01.10:
Fresh frozen solid tissue*		Qiagen EZ1 or EZ2 using EZ1&2 Tissue Kit with manual homogenation PP 03.01.07
Fresh tissue Foetal Tissue POC		Qiagen EZ1 or EZ2 using EZ1&2 DNA Tissue Kit with tissue abruption using Precellys 24 Homogeniser PP 03.01.19
Peripheral Blood Bone Marrow Foetal Blood Mouth Wash Cultured Cells		Manual DNA Extraction: Qiagen Genra Puregene Kit PP 03.01.02 PP 03.01.06 PP 03.01.05
Peripheral Blood		Biorad Instagene matrix PP 03.01.12



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<p>HUMAN TISSUES AND BODY FLUIDS</p> <p>Peripheral Blood Bone Marrow, Foetal Blood CVS,Fixed Cells</p> <p>Peripheral Blood Bone Marrow Foetal Blood</p> <p>Saliva (Oragene self collection kit)</p> <p>Genomic DNA extracted inhouse from the sample types listed above or received as primary sample type from an external source</p> <p>FFPE</p>	<p>Genomic analysis for the purpose of clinical diagnosis of rare disease and cancer</p> <p>Sample processing, DNA/RNA extraction, quantification and quality check for subsequent in-house analysis (see below), referral to specialist centres and long term storage</p>	<p>Documented in house procedures incorporating manufacturer's instructions (where relevant)</p> <p>Phenol Chloroform extraction</p> <p>PP 03.01.03, PP 03.01.04 PP 03.01.11</p> <p>Phenol Chloroform extraction – High Risk protocol</p> <p>PP 03.01.24</p> <p>DNA extraction using Genotek Prep-IT kit</p> <p>PP.03.01.13</p> <p>DNA Quantification for QC purposes Nanodrop 8000 Qubit 2.0/4.0 fluorometer Quantification of DNA samples using Quant-iT Picogreen assay and SpectraMax Gemini™ XPS Spectrofluorometer SOPs: PP 03.01.27 PP 03.01.36</p> <p>Automated dual DNA and RNA extraction and quantification using:</p> <p>DNA and RNA extraction from FFPE scrolls and slides using Promega Maxwell RSC instruments and Promega Maxwell RSC RNA FFPE kit PP03.01.68</p>



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<p>HUMAN TISSUES AND BODY FLUIDS</p> <p>Whole Blood Bone Marrow</p> <p>RNA extracted inhouse from the sample types listed above or received as primary sample type from an external source</p> <p>RNA extracted inhouse from FFPE</p> <p>Genomic DNA extracted in-house from the sample types listed and received as primary samples from external sources</p>	<p>Genomic analysis for the purpose of clinical diagnosis of rare disease and cancer</p> <p>Sample processing, DNA/RNA extraction, quantification and quality check for subsequent in-house analysis (see below), referral to specialist centres and long term storage</p> <p>Detection of SNVs and Small indels</p> <p>[definitive list QA 01.02.60]</p>	<p>Documented in house procedures incorporating manufacturer's instructions (where relevant)</p> <p>Automated RNA extraction using:</p> <p>RNA extraction using Promega Maxwell RSC instruments and Promega Maxwell RSC simplyRNA Blood kit</p> <p>PP 03.01.65 PP.03.01.66</p> <p>Reverse Transcription Manual -High Capacity cDNA Reverse Transcriptase kit (Applied Biosystems)</p> <p>PP 03.01.26:</p> <p>RNA Quantification for QC purposes Qubit</p> <p>PP 03.01.36</p> <p>Fluorescence based ARMS PCR</p> <p>Multiplexing Luminex commercial CF XTAG kit:</p> <p>Equipment: Luminex 200</p> <p>Analysis using: Luminex integrated software</p> <p>SOP: FRAG 01.01.05</p>



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<p>HUMAN TISSUES AND BODY FLUIDS</p> <p>Genomic DNA and RNA extracted in-house from the sample types listed and received as primary samples from external sources</p>	<p>Genomic analysis for the purpose of clinical diagnosis of rare disease and cancer</p> <p>Detection of nuclei acid sequence variants – SNVs, small indels and splice site mutations</p> <p>[definitive list QA 01.02.60]</p>	<p>Documented in house procedures incorporating manufacturer's instructions (where relevant)</p> <p>Sanger Sequencing</p> <p>Using</p> <p>Standard primer design methodology and PCR amplification (where relevant to internal samples and confirmatory processes)</p> <p>SOP: SEQ 01.01.26 PP 03.01.35</p> <p>And:</p> <p>PCR blocks, ABI 3730 Capillary electrophoresis instruments</p> <p>Analysis and interpretation of variants by Mutation Surveyor software.</p> <p>SOP: 01.01.10 SEQ 01.01.25</p> <p>Fragment Length Analysis</p> <p>Fragment Length Analysis using Capillary Electrophoresis</p> <p>PCR, methylation specific PCR, Triplet Repeat PCR using in-house methods</p> <p>Equipment: PCR blocks and resolution using an ABI 3500XL capillary sequencer:</p> <p>Analysis using GeneMapper and GeneMarker</p> <p>SOPs: FRAG 01.01.07 FRAG 01.01.13</p>
<p>Genomic DNA extracted in-house from the sample types listed and received as primary samples from external sources</p>	<p>Detection of fragment length size, deletions, known SNVs and small indels, gene rearrangements, repeat expansions, linkage makers, short tandem repeats, microsatellites and methylation status</p> <p>[definitive list QA 01.02.60]</p>	<p>PCR, methylation specific PCR, Triplet Repeat PCR using in-house methods</p> <p>Equipment: PCR blocks and resolution using an ABI 3500XL capillary sequencer:</p> <p>Analysis using GeneMapper and GeneMarker</p> <p>SOPs: FRAG 01.01.07 FRAG 01.01.13</p>



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HUMAN TISSUES AND BODY FLUIDS	Genomic analysis for the purpose of clinical diagnosis of rare disease and cancer	Documented in house procedures incorporating manufacturer's instructions (where relevant)
Genomic DNA extracted in-house from the sample types listed	Determination of copy number changes [definitive list QA 01.02.60]	Quantitative Fluorescence PCR (QF-PCR) Using: In-house methods for trisomy screen And: Thermocyclers. Resolution by capillary electrophoresis using ABI 3500XL. Analysis using Genemarker and Genemapper SOP: FRAG 01.01.16 PN 01.01.18
Genomic DNA and RNA extracted in house from the sample types listed above and received as primary samples from external sources (cont'd)	Qualitative Genotype analysis for SNVs, indels and fusion transcripts [definitive list QA 01.02.60]	Qualitative Reverse Transcriptase PCR (RTPCR) (Including nested) Using: Agarose gel electrophoresis SOPs: TP 01.01.67 TP 01.01.61 TP 01.01.60
RNA extracted in house from the sample types listed above and received as primary samples from external sources (cont'd)	For the quantitative detection of common fusion transcripts [definitive list QA 01.02.60]	Quantitative Real Time PCR (RQ-PCR) Using: In house methodology ABI 7500 Real time PCR system SOPs: QPCR 01.01.11 HOA 01.01.57 QPCR 01.01.27 HOA 01.01.61



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HUMAN TISSUES AND BODY FLUIDS	Genomic analysis for the purpose of clinical diagnosis of rare disease and cancer	Documented in house procedures incorporating manufacturer's instructions (where relevant)
Genomic DNA extracted in-house from the sample types listed and received as primary samples from external sources	Determination of methylation status and copy number – deletions and duplications [definitive list QA 01.02.60]	Multiplex Ligation-dependent Probe Amplification (MLPA) and methylation specific (MS) MLPA. Using Commercial MRC Hollandkits, thermocyclers and ABI3500xl Analysis using GeneMarker and Genemapper SOPs:FRAG 01.01.04 FRAG 01.01.10
Genomic DNA extracted in-house from the sample types listed above	Post-transplant Chimaerism analysis - % donor engraftment	Microsatellite analysis using in house PCR methodology and ABI 3500 XL. Analysis using; ChimerMarker Software SOPs: TP 01.01.63, HOA 01.01.14
Genomic DNA extracted in-house from the sample types listed above	Detection of known SNVs and indels at high sensitivity [definitive list QA 01.02.60]	Droplet Digital PCR Using: BioRAD commercial Kits and in-house methodology BioRAD QX200 Droplet Reader BioRAD AutoDroplet Generator BioRAD PCR Plate Reader Analysis using integrated software SOPs: QPCR 01.01.01, QPCR 01.01.31



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<p>HUMAN TISSUES AND BODY FLUIDS</p> <p>Genomic DNA and RNA extracted in house from the sample types listed and samples received as primary samples from external sources (cont'd)</p> <p>Genomic DNA extracted in-house from the sample types listed and received as primary samples from external sources.</p>	<p>Genomic analysis for the purpose of clinical diagnosis of rare disease and cancer</p> <p>Next Generation Whole Exome Sequencing with genomic analysis for the purpose of clinical diagnosis of rare disease and cancer</p> <p>Single Nucleotide Variants (SNVs), Insertions/deletions (indels), Copy Number Variants (CNVs)</p>	<p>Documented in house procedures incorporating manufacturer's instructions (where relevant)</p> <p>Next Generation Sequencing (cont):</p> <p><u>Analysis using:</u></p> <p>Agilent 2200 TapeStation, Qubit 2.0 Fluorometer, thermal cycler and 2.0 Fluorometer, Illumina MiSEQ</p> <p>Analysis using:</p> <p>BI 01.01.08: NIPD RHDO Bioinformatics Pipeline BI 01.01.07: NIPD Bespoke Bioinformatics Pipeline</p> <p>SEQ 01.01.22</p> <p>Whole Exome Sequencing using Nonacus Cell3 Target ExomeCG Enrichment system, sequencing by Illumina NovaSeq 6000 and analysis using Congenica Decision Support Software</p> <p>SOPs: SEQ 01.01.68 SEQ 01.01.71 RD 01.01.87 PN 01.01.42 RD 01.01.88</p>



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<p>HUMAN TISSUES AND BODY FLUIDS</p> <p>Genomic DNA extracted in-house from the sample types listed and received as primary samples from external sources.</p> <p>Genomic DNA extracted in-house from the sample types listed and received as primary samples from external sources.</p> <p>Prepared NGS libraries received from external sources.</p>	<p>Genomic analysis for the purpose of clinical diagnosis of rare disease and cancer</p> <p>Next Generation Sequencing of large gene panels with genomic analysis for the purpose of clinical diagnosis and management in acquired cancer</p> <p>Single Nucleotide Variants (SNVs), Insertions/deletions (indels)</p> <p>Next Generation Sequencing of large gene panels with genomic analysis for the purpose of clinical diagnosis and management in haematological neoplasia</p> <p>Single Nucleotide Variants (SNVs), Insertions/deletions (indels), Copy Number Variants (CNVs), Structural Variants (SVs)</p> <p>Next Generation Sequencing of libraries prepared by external sources</p>	<p>Documented in house procedures incorporating manufacturer's instructions (where relevant)</p> <p>Next Generation Sequencing (cont):</p> <p>NGS using Illumina TruSight Oncology 500 HT enrichment, sequencing by Illumina NovaSeq 6000 and analysis using in-house Bioinformatics pipeline employing Illumina DRAGEN Bio-IT platform and Agilent Alissa Interpret software</p> <p>SOPs: SEQ 01.01.73 SEQ 01.01.71 BI 01.01.27 SC 01.02.14</p> <p>NGS using Nonacus Cell3 Target enrichment kit, automation using the Hamilton Microlab Star, sequencing by Illumina NovaSeq 6000 and analysis using in-house Bioinformatics pipeline employing Illumina DRAGEN Bio-IT platform and Agilent Alissa Interpret software</p> <p>SOPs: SEQ 01.01.85 SEQ 01.01.71 BI 01.01.29 HOA 01.01.69 HOA 01.01.71</p> <p>Sequencing by Illumina NovaSeq 6000</p> <p>SEQ 01.01.71</p>



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<p>HUMAN TISSUES AND BODY FLUIDS</p> <p>Genomic DNA and RNA extracted in-house from FFPE and received as primary samples from external sources.</p>	<p>Genomic analysis for the purpose of clinical diagnosis of rare disease and cancer</p> <p>Next Generation Sequencing with genomic analysis for the purpose of clinical diagnosis and management in acquired cancer</p> <p>Single Nucleotide Variants (SNVs), Insertions/deletions (indels), Copy Number Variants (CNVs), Inter and Intra Genetic Fusions</p>	<p>Documented in house procedures incorporating manufacturer's instructions (where relevant)</p> <p>Next Generation Sequencing (cont):</p> <p>NGS using the ThermoFisher Genexus Integrated Sequencer for library preparation, sequencing and analysis</p> <p>Oncomine Precision Assay SEQ 01.01.76 SC 01.02.10 SC 01.02.16 HOA 01.01.66 HOA 01.01.40</p> <p>Oncomine Comprehensive Assay SEQ 01.01.76 SC 01.02.23</p>
<p>DNA obtained from whole blood</p>	<p>DYPD testing</p>	<p>PCR with MalDI-TOF Agena MassArray PG 01.01.03</p>
<p>Genomic DNA extracted in-house from the sample types listed and received as primary samples from external sources</p>	<p>Chromosomal Microarray analysis for germline and acquired copy number variants (CNV) and copy neutral loss of heterozygosity (CN-LOH) in postnatal disorders, prenatal diagnosis and pregnancy loss, and haemato-oncology</p>	<p>Microarray</p> <p>SNP Array using Illumina Infinium HTS Assay and Illumina iScan system, automation using Tecan Freedom Evo, analysis using Bionano NxClinical software.</p> <p>SOPs: ARRAY 01.01.45, DD 01.01.24, DD 01.01.25, PN 01.01.38, HOA 01.01.55, HOA 01.01.26</p>



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<p>HUMAN TISSUES AND BODY FLUIDS</p> <p>Whole Blood Amniotic Fluid CVS Foetal blood Products of Conception Bone Marrow Tissues/Skin Biopsy</p>	<p>Genomic analysis for the purpose of clinical diagnosis of rare disease and cancer</p> <p>G-banding/Karyotyping:</p> <p>Detection of chromosomal rearrangements or aberrations arising from: (e.g)</p> <p>Prenatal Diagnosis Reproductive Medicine Disorders Developmental Disorders Haemto/Oncology Disorders Chromosome Breakage Disorders</p> <p>(preparative pre-examination steps listed first)</p>	<p>Documented in house procedures incorporating manufacturer's instructions (where relevant)</p> <p>Culturing and processing of human tissue/cells using in-house and commercial media to provide interphase cells:</p> <p>Cell Separation using autoMACS (see processing section)</p> <p>Cell Harvesting</p> <p>Automated process using Multiprep Cell Sprint Robotic Harvester</p> <p>SOP TP 01.01.15</p> <p>Manual Process</p> <p>SOP: PP 02.01.40</p> <p>Chromosome analysis, Microscopic and Macroscopic analysis of G banded chromosomes using Manual Processing and Varistain Banding Instrument and microscopes</p> <p>Analysis using Metasystems Icaris</p> <p>SOPs:</p> <p>PP 02.01.92 PP 02.01.93 PP 02.01.94 KARYO 01.01.06 GL 01.01.19 HOA 01.01.05</p>



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<p>HUMAN TISSUES AND BODY FLUIDS</p> <p>Formalin fixed paraffin embedded tissue (FFPE) Peripheral Blood Bone Marrow Fixed culture cells (more specific – cultured, uncultured PB, Marrow, AFs etc) Amniotic fluid CVS- Chronic villus samples</p>	<p>Genomic analysis for the purpose of clinical diagnosis of rare disease and cancer</p> <p>Detection of chromosomal aberrations in the diagnosis of</p> <p>haematological malignancy, bone marrow failure syndromes, non-haematological malignancies and constitutional disorders, solid tumours and companion testing</p> <p>Break-apart probes Fusion products Deletion Insertion Copy Number / Amplification</p>	<p>Documented in house procedures incorporating manufacturer's instructions (where relevant)</p> <p>Fluorescence in situ hybridisation (FISH) Culturing and processing of human tissue/cells using in-house and commercial media to provide interphase/metaphase cells:</p> <p>Preparation and harvesting as for G-banding</p> <p>Manual Process PP 02.01.40</p> <p>And commercial and in house developed probes. Hybridisation using Hybrite/Thermobrite</p> <p>Analysis</p> <p>Fluorescence microscope and metasystems ISIS SOPs</p> <p>FISH 01.01.04, FISH 01.01.95, FISH 01.01.97, GI 01.01.06</p>
END		