


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>8652</p> <p>Accredited to ISO 15189:2022</p>	<p align="center">Sheffield Children's Hospital NHS Foundation Trust</p> <p align="center">Issue No: 009 Issue date: 14 January 2025</p> <table border="1"> <tr> <td data-bbox="395 465 842 734"> <p>Sheffield Genetics Service Sheffield Children's Hospital Western Bank Sheffield S10 2TH United Kingdom</p> </td><td data-bbox="842 465 1493 734"> <p>Contact: Richard Kirk Tel: +44 (0)114 305 3885 E-Mail: sheffield.diagnosticgenetics@nhs.net Website: www.sheffieldchildrens.nhs.uk/our-services/laboratory-medicine/</p> </td></tr> </table>	<p>Sheffield Genetics Service Sheffield Children's Hospital Western Bank Sheffield S10 2TH United Kingdom</p>	<p>Contact: Richard Kirk Tel: +44 (0)114 305 3885 E-Mail: sheffield.diagnosticgenetics@nhs.net Website: www.sheffieldchildrens.nhs.uk/our-services/laboratory-medicine/</p>
<p>Sheffield Genetics Service Sheffield Children's Hospital Western Bank Sheffield S10 2TH United Kingdom</p>	<p>Contact: Richard Kirk Tel: +44 (0)114 305 3885 E-Mail: sheffield.diagnosticgenetics@nhs.net Website: www.sheffieldchildrens.nhs.uk/our-services/laboratory-medicine/</p>		
<p align="center">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>Whole Blood, Bone Marrow, FFPE, Slide sections, Sperm, Saliva, Buccal swabs, Fetal Blood, Products of conception, Tissue, Fibroblasts, Lyophilised Cells, Amniocytes, Dried bloodspots, Buccal Swabs, Foetal Blood</p> <p>MLPA data files received from an external source within the NEYGLH</p>	<p><u>Genomic analysis for the purpose of clinical diagnosis of rare disease and cancer</u></p> <p>Forwarding of human tissue and fluids to partner laboratories in the NEYGLH or other specialist centres, receipt of test results data for in-house analysis and reporting.</p> <p>Detection known pathogenic variants and copy number changes</p> <p>[Definitive list in 407.103]</p>	<p>Multiplex Ligation Probe Amplification (MLPA) – Data analysis only:</p> <p>MLPA Analysis using MRC Holland Coffalyser data analysis software</p> <p>SOP 401.071</p>



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<p>HUMAN TISSUE and FLUIDS (cont'd)</p> <p>Sanger sequencing data files received from an external source within the NEYGLH</p>	<p><u>Genomic analysis for the purpose of clinical diagnosis of rare disease and cancer</u> (cont'd)</p> <p>Detection and confirmation of known and unknown nucleic acid sequence variants and confirmation of SNVs and Indels and fusion genes</p> <p>[Definitive list of known targets listed in 401.336]</p>	<p>Sanger Sequencing – Data analysis only</p> <p>Analysis using mutation surveyor and variant interpretation and reporting using variant classification procedure</p> <p>SOPs, 601.235, 601.314 402.005</p>
<p>Real time PCR data files received from an external source within the NEYGLH</p>	<p>Quantitative analysis of known gene fusions events SNVs and indels (for the purpose of end point genotyping)</p> <p>[Definitive list in 407.102]</p>	<p>Real Time PCR – Reporting only:</p> <p>Results only</p> <p>SOPs: 401.094, 601.313, 601.037, 401.312, 401.313</p>
<p>ddPCR data files received from an external source within the NEYGLH</p>	<p>Detection of nucleic acid sequence variants - SNVs and Indels [definitive list in 407.446]</p>	<p>ddPCR using Droplet Generator – Reporting only:</p> <p>Results only</p> <p>SOPs: 401.283, 401.286</p>
<p>Fragment length data files received from an external source within the NEYGLH</p>	<p>Detection of fragment length size, deletions, known mutations, and repeat expansions</p> <p>[Definitive list in 407.100, 407.101]</p>	<p>Fragment length analysis – Data analysis only:</p> <p>GeneMapper software</p> <p>SOPs 401.026, 401.347, 401.036</p>



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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>Next Generation Sequence data files received from an external source within the NEYGLH</p>	<p><u>Genomic analysis for the purpose of clinical diagnosis of rare disease and cancer</u> (cont'd)</p> <p>Sequencing of large gene panels for genetic variants (SNVs/indels/CNVs/gene fusions)</p> <p>[Definitive list in 413.004]</p>	<p>Next Generation Sequencing – Data analysis only:</p> <p>Analysis using NEYGLH or in-house pipeline and variant interpretation and reporting including variant classification procedures</p> <p>SOPs 401.058, 401.047, 402.005, 401.341, 401.394; 401.387, 401.398</p>
<p>SNP array data files received from an external source within the NEYGLH</p>	<p>Detection of microscopic chromosomal imbalance (gains and losses) expressed as changes to copy number</p>	<p>SNP Array – Data analysis only:</p> <p>Analysis and interpretation of genetic imbalances using BlueFuse Multi, the 'Heidelberg' classifier and web-based UCSC genome browser</p> <p>SOPs</p> <p>401.340, 401.346, 401.388</p>
<p>Karyotyping image files received from an external source within the NEYGLH</p>	<p>Karyotyping</p> <p>Detection of chromosomal rearrangements or aberrations arising from:</p> <p>Prenatally detected Disorders Developmental disorders Reproductive medicine disorders Haematological/Oncology disorders Chromosomal breakage disorders</p>	<p>Microscopic analysis chromosomes – Data analysis only:</p> <p>SOPs 501.010, 401.356, 501.032, 501.044, 501.028 501.051</p>



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HUMAN TISSUE and FLUIDS (cont'd) FISH image files received from an external source within the NEYGLH	<u>Genomic analysis for the purpose of clinical diagnosis of rare disease and cancer</u> (cont'd) Detection of chromosomal aberrations in the diagnosis of: [Definitive list 506.008 and as Probe Master Software] Haematological malignancy Bone marrow failure syndromes, Non haematological malignancies and constitutional disorders, Solid tumours and companion testing Using: Amplification probes Break apart probe Break apart rearrangement probe Centromeric Hetro chromatin Deletion/ Duplication probe Dual fusion rearrangement probe Duplication/ Deletion/Break Apart Probe Hetrochromatin Probe Sub Telomere	Fluorescence in situ hybridisation (FISH) – Data analysis/Reporting only: Results only
QF-PCR data files received from an external source within the NEYGLH	Rapid analysis of common trisomy's: [Definitive list in 401.006].	QF-PCR – Data analysis only: Newcastle kit Leeds kit Analysis by Genemapper Software SOPs 401.006, 401.026
END		