


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>Accredited to ISO 15189:2012</p>	Royal Brompton and Harefield NHS Foundation Trust Issue No: 004 Issue date: 30 April 2020	
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Testing performed at the above address only		

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN TISSUES AND FLUIDS	<u>Molecular genetic examinations for the purpose of clinical diagnosis</u>	In house documented methods incorporating manufacturer's instructions where relevant
Blood		DNA extraction from blood using Qiagen EZ1 Advanced XL robot with EZ1 Blood DNA kit 350ul kit CLINGEN.INS.1
Blood		DNA extraction from blood using Qiagen QIA Symphony SP robot CLINGEN.INS.80
Blood		DNA extraction from blood using Nucleon BACC2 kit CLINGEN.INS.54
Saliva		DNA extraction from saliva using Norgen DNA Extraction Kit CLINGEN.INS.64



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
<p>HUMAN TISSUES AND FLUIDS (cont'd)</p> <p>DNA</p>	<p><u>Molecular genetic examinations for the purpose of clinical diagnosis</u> (cont'd)</p> <p>Inherited Cardiac Conditions gene panel for detection of clinically relevant nucleic acid sequence variants (including SNVs, CNVs indels, down to single exon level):</p> <p>Inherited Respiratory Conditions gene panel for detection of clinically relevant nucleic acid sequence variants (including SNVs, indels and CNVs down to single exon level):</p>	<p>In house documented methods incorporating manufacturer's instructions where relevant</p> <p>NGS library preparation using the Agilent SureSelect QXT custom kit CLINGEN.INS.63</p> <p>DNA sequencing on Illumina MiSeq / NextSeq550 automated benchtop sequencers. CLINGEN.INS.63</p> <p>Bioinformatic data analysis using commercial software and databases, and in-house bioinformatics pipeline. CLINGEN.SOP.40</p> <p>Variant interpretation and reporting CLINGEN.SOP.37</p> <p>NGS library preparation using Agilent SureSelect QXT custom library prep kit CLINGEN.INS.63</p> <p>DNA sequencing on Illumina MiSeq / NextSeq550 automated benchtop sequencers. CLINGEN.INS.63</p> <p>Bioinformatic data analysis using commercial software and databases, and in-house bioinformatics pipeline. CLINGEN.SOP.40</p> <p>Variant interpretation and reporting CLINGEN.SOP.37</p>



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<p>HUMAN TISSUES AND FLUIDS (cont'd)</p>	<p><u>Molecular genetic examinations for the purpose of clinical diagnosis</u> (cont'd)</p> <p>Aortopathy and Vasculopathy gene panel for detection of clinically relevant nucleic acid sequence variants (including SNVs, indels and CNVs down to single exon level):</p>	<p>In house documented methods incorporating manufacturer's instructions where relevant</p> <p>NGS library preparation using Agilent SureSelect QXT custom library prep kit CLINGEN.INS.63</p> <p>DNA sequencing on Illumina MiSeq / NextSeq550 automated benchtop sequencers. CLINGEN.INS.63</p> <p>Bioinformatic data analysis using commercial software and databases, and in-house bioinformatics pipeline. CLINGEN.SOP.40</p> <p>Variant interpretation and reporting CLINGEN.SOP.37</p>
<p>DNA</p>	<p>Detection of clinically relevant nucleic acid sequence variants (including SNVs, indels and CNVs down to single exon level) in genes associated with inherited respiratory and cardiac conditions, for variant screening confirmation of NGS findings (including GEL WGS), and cascade testing</p>	<p>PCR and Sanger sequencing using AB Veriti thermal cycler and AB3500 genetic analyser, including primer design and validation Sequencing results analysed using JSI Medical SeqPilot software. CLINGEN.SOP.36 CLINGEN.INS.3</p> <p>Multiplex Ligation-dependant Probe Amplification (MLPA) using AB Veriti thermal cycler and AB3500 genetic analyser. Results analysed using Coffalyser software CLINGEN.INS.55</p> <p>Digital droplet PCR using Biorad ddPCR platform Results analysed using Quantasoft software CLINGEN.INS.69</p>



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HUMAN TISSUES AND FLUIDS (cont'd)	<u>Molecular genetic examinations for the purpose of clinical diagnosis</u> (cont'd)	In house documented methods incorporating manufacturer's instructions where relevant
DNA	Determination of genotype for sample identification in cases of potential sample swap or contamination	DNA fragment analysis at specific loci using PowerPlex HS kit (co-amplification and three-color detection of sixteen loci in a multiplex STR system) using AB Veriti thermal cycler and AB3500 genetic analyser. CLINGEN.INS.31
DNA	CFTR common variant screening using the Devyser CFTR Core kit	Results analysed using GeneMapper software CLINGEN.INS.51
		Multiplex ARMS PCR with the Devyser CFTR Core Kit using AB Veriti thermal cycler and AB3500 genetic analyser. Analysis with GeneMapper software CLINGEN.INS.60
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