


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>UKAS MEDICAL</p> <p>8040</p> <p>Accredited to ISO 15189:2012</p>	<p>University College London Hospitals NHS Foundation Trust</p>	
	<p>Issue No: 005 Issue date: -16 June 2022</p>	
	<p>Neurogenetics Unit Rare & Inherited Disease Laboratory NHS North Thames Genomic Laboratory Hub Level 4-6 Barclay House 37 Queen Square London WC1N 3BH</p>	<p>Contact: Vaneesha Gibbons Tel: 0207 829 8870 E-Mail: vaneeshagibbons@nhs.net Website: www.uclh.nhs.uk/neurogeneticslab</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
HUMAN BODY FLUIDS / TISSUES	<p><u>Neurogenetics</u></p> <p>Analysis of the human genome (or part thereof) to detect pathogenic variation that results in a clinical phenotype</p>	
Receipt of Sanger sequencing data	<p>Variant detection in genes and variant confirmation and carrier/ predictive testing for the following neurological disorders:</p> <p>Andersen Tawil syndrome- KCNJ2</p> <p>Familial British Dementia- ITM2B</p> <p>Amyloidosis, Finnish Type (FAF)- GSN</p> <p>Charcot-Marie-Tooth Neuropathy, Type 1B and CMT2- MPZ</p> <p>CMT X-Linked - CX32/ GJB1</p> <p>Distal Hereditary Motor Neuropathy Type V; HMNV- BSCL2</p>	<p>Reporting of Sanger sequencing data using Mutation Surveyor software as described in NGENS ANA0020</p>



8040
Accredited to
ISO 15189:2012

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

University College London Hospitals NHS Foundation Trust
Issue No: 005 Issue date: 16 June 2022

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
<p>HUMAN BODY FLUIDS / TISSUES</p> <p>Receipt of Sanger sequencing data</p>	<p><u>Neurogenetics</u></p> <p>Analysis of the human genome (or part thereof) to detect pathogenic variation that results in a clinical phenotype (cont'd)</p> <p>Variant detection in genes and variant confirmation and carrier/predictive testing for the following neurological disorders:</p> <p>Episodic ataxia: Type 1- KCNA1</p> <p>Familial Amyloid polyneuropathy; FAP- TTR</p> <p>Charcot-Marie-Tooth disease type 2K; CMT2K and Charcot-Marie-Tooth disease type 4A; CMT4A-GDAP1</p> <p>Charcot-Marie-Tooth disease type 2F; CMT2F and distal hereditary motor neuropathy; HMN2B- HSPB1</p> <p>Neuropathy, hereditary sensory and autonomic, type IA; HSAN1-SPTLC1</p> <p>Paramyotonia Congenita- SCN4A</p> <p>Hypokalemic periodic paralysis- CACNA1S & SCN4A</p> <p>Hyperkalemic periodic paralysis- SCN4A</p> <p>Leber Optic Atrophy; m.3460G>A; m.11778G>A; m.14484T>C</p> <p>Mitochondrial mutations in: MT-TK including m.8344A>G and MT-ATP6 including, m.8993T>G/C</p>	<p>Reporting of Sanger sequencing data using Mutation Surveyor software as described in NGENS ANA0020</p>



8040
Accredited to
ISO 15189:2012

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

University College London Hospitals NHS Foundation Trust
Issue No: 005 Issue date: 16 June 2022

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
<p>HUMAN BODY FLUIDS / TISSUES</p> <p>Receipt of Sanger sequencing data (including MLPA)</p>	<p><u>Neurogenetics</u></p> <p>Analysis of the human genome (or part thereof) to detect pathogenic variation that results in a clinical phenotype (cont'd)</p> <p>Sanger Sequencing and MLPA analysis for the following neurological disorders:</p> <p>SCN1A related epilepsy- SCN1A</p> <p>Charcot-Marie-Tooth Neuropathy, Type 2A2- MFN2</p> <p>Dopa Responsive Dystonia; DRD-GCH1</p> <p>Hereditary liability to pressure palsies- PMP22 del/PMP22 sequence mutations</p> <p>Charcot-Marie-Tooth disease demyelinating type 1A; CMT1A-PMP22 Dup/PMP22 sequence mutations</p> <p>Myotonia Congenita dominant and recessive forms- CLCN1</p> <p>Parkinson disease, juvenile, type 2 - PARK2</p>	<p>Reporting of Sanger sequencing data and MLPA data using Mutation Surveyor software as described in NGENS ANA0020 for Sanger sequencing and using Genemarker software as described in RGS ANA0205 and NGEN-LP-GeneMarkerMLPA for MLPA analysis</p>



8040
Accredited to
ISO 15189:2012

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

University College London Hospitals NHS Foundation Trust
Issue No: 005 Issue date: 16 June 2022

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
<p>HUMAN BODY FLUIDS / TISSUES</p> <p>Receipt of fragment analysis data (including MLPA)</p>	<p><u>Neurogenetics</u></p> <p>Analysis of the human genome (or part thereof) to detect pathogenic variation that results in a clinical phenotype (cont'd)</p> <p>DNA dosage analysis for:</p> <p>Autosomal dominant Parkinson's disease with a-synuclein rearrangements (PARK1/4)- SNCA</p> <p>Autosomal dominant Parkinson's disease-PARK8- LRRK2</p>	<p>Reporting of fragment analysis data (including MLPA) using Genemarker software as described in RGS ANA0205 and NGEN-LP-GeneMarkerMLPA</p>



8040
Accredited to
ISO 15189:2012

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

University College London Hospitals NHS Foundation Trust
Issue No: 005 Issue date: 16 June 2022

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
<p>HUMAN BODY FLUIDS / TISSUES</p> <p>Receipt of fragment analysis data (including MLPA)</p>	<p><u>Neurogenetics</u></p> <p>Analysis of the human genome (or part thereof) to detect pathogenic variation that results in a clinical phenotype (cont'd)</p> <p>Fragment analysis:</p> <p>Autosomal Dominant Spinocerebellar Ataxia :1,2,3,6,7, 12, 17- ATXN1; ATXN2; ATXN3; TBP, CACNA1A; ATXN7; PPP2R2B;</p> <p>Dentatorubropallidolusian Atrophy; DRPLA- ATN1</p> <p>Friedreich's Ataxia; FRDA- FXN</p> <p>Huntington Disease; HD- HTT</p> <p>Huntington Disease-Like 2; HDL2- JPH3</p> <p>Primary Torsion Dystonia; DYT1- TOR1A</p> <p>X- linked Bulbospinal Neuropathy- AR</p>	<p>Fragment sizing using GeneMapper software as described in SOPs NGENS ANA0004</p>



8040
Accredited to
ISO 15189:2012

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

University College London Hospitals NHS Foundation Trust
Issue No: 005 Issue date: 16 June 2022

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUIDS / TISSUES Receipt of fragment analysis data	<u>Neurogenetics</u> Analysis of the human mitochondrial genome (or part thereof) to detect pathogenic variation that results in a clinical phenotype (cont'd) Detection of Chromosome-9 linked ALS/FTD- C9orf72	Reporting of fragment analysis data using GeneMapper software as described in SOPs NGENS ANA0004
Receipt of sequencing data Receipt of sequencing data	Large scale rearrangements of the mitochondrial genome. Detection of: Leber Optic Atrophy: m.3460G>A; m.11778G>A; m.14484T>C Mitochondrial common mutations: m.3243A>G, m.8344A>G, m.8993T>G/C	Reporting of fragment sizing data NGENS DNG0018 Reporting of outcomes of targeted variant screening using Mutation Surveyor as described in NGENS ANA0020 for Sanger sequencing and NGENS ANA0004 for GeneMapper



8040
Accredited to
ISO 15189:2012

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

University College London Hospitals NHS Foundation Trust
Issue No: 005 Issue date: 16 June 2022

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
<p>HUMAN BODY FLUIDS / TISSUES</p> <p>Receipt of Sanger sequencing data and agarose gel images</p> <p>Receipt of NGS data</p>	<p><u>Neurogenetics</u></p> <p>Analysis of the human mitochondrial genome (or part thereof) to detect pathogenic variation that results in a clinical phenotype (cont'd)</p> <p>DNA dosage analysis of mtDNA</p> <p>Mitochondrial whole genome sequencing</p>	<p>Reporting of Quantitative fluorescent PCR as described in NGENS DNG0019 and NGENS DNG0015</p> <p>SOP: Whole mtDNA NGS data analysis as described in NGENS DNG0028</p>



8040
Accredited to
ISO 15189:2012

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

University College London Hospitals NHS Foundation Trust
Issue No: 005 Issue date: 16 June 2022

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
<p>HUMAN BODY FLUIDS / TISSUES</p> <p>Receipt of Sanger data and MLPA data</p> <p>Data extracted following Next Generation Sequencing Analysis</p>	<p><u>Neurogenetics</u></p> <p>Analysis of the human genome (or part thereof) to detect pathogenic variation that results in a clinical phenotype (cont'd)</p> <p>Confirmation of pathogenic variation</p> <p>Variant interpretation</p>	<p>Using Mutation Surveyor software as described in NGENS ANA0020 for Sanger sequencing and using Genemarker software as described in RGS ANA0205 and NGEN-LP-GeneMarkerMLPA for MLPA</p> <p>Bioinformatic analysis with reference to: NGEN-LP-Alamut NGEN-LP-Custom NGS Panel Data Analysis for Pipeline NGEN-LP-NGS_Pipeline_Hands-on_Analysis</p>
END		