# **Schedule of Accreditation**

issued by

**United Kingdom Accreditation Service** 

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



### DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	
	Neurogenetics		
HUMAN BODY FLUIDS / TISSUES	Analysis of the human genome (or part thereof) to detect pathogenic variation that results in a clinical phenotype		
Receipt of Sanger sequencing data	Variant detection in genes and variant confirmation and carrier/ predictive testing for the following neurological disorders:	Reporting of Sanger sequencing data using Mutation Surveyor software as described in NGENS ANA0020	
	Andersen Tawil syndrome- KCNJ2		
	Familial British Dementia- ITM2B		
	Amyloidosis, Finnish Type (FAF)- GSN		
	Charcot-Marie-Tooth Neuropathy, Type 1B and CMT2- MPZ		
	CMT X-Linked - CX32/ GJB1		
	Distal Hereditary Motor Neuropathy Type V; HMNV- BSCL2		
	Episodic ataxia: Type 1- KCNA1		
	Familial Amyloid polyneuropathy; FAP- TTR		



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Accredited to ISO 15189:2022

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



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



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	Neurogenetics (cont'd)	
HUMAN BODY FLUIDS / TISSUES (cont'd)	Analysis of the human genome (or part thereof) to detect pathogenic variation that results in a clinical phenotype (cont'd)	
Receipt of fragment analysis data	Fragment analysis:	Fragment sizing using GeneMapper software as described in SOPs NGENS ANA0004
	Autosomal Dominant Spino- cerebellar Ataxia :1,2,3,6,7, 12, 17- ATXN1; ATXN2; ATXN3; TBP, CACNA1A; ATXN7; PPP2R2B;	
	Dentatorubropallidoluysian Atrophy; DRPLA- ATN1	
	Friedreich's Ataxia; FRDA- FXN	
	Huntington Disease; HD- HTT	
	Huntington Disease-Like 2; HDL2- JPH3	
	Primary Torsion Dystonia; DYT1- TOR1A	
	X- linked Bulbospinal Neuropathy- AR	
Receipt of fragment analysis data	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	Large scale rearrangements of the mitochondrial genome.	Reporting of fragment sizing data using long range PCR and mitochondrial WGS



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	measured/Range of measurement	Equipment/Techniques used
HUMAN BODY FLUIDS / TISSUES (cont'd)	<u>Neurogenetics</u> (cont'd) Analysis of the human mitochondrial genome (or part thereof) to detect pathogenic variation that results in a clinical phenotype (cont'd)	
Receipt of sequencing data	Detection of:	Reporting of outcomes of targeted variant screening using Mutation Surveyor as described in NGENS ANA0020 for Sanger sequencing and NGENS ANA0004 for GeneMapper
	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	
Fragment Analysis	DNA dosage analysis of mtDNA	Reporting of Quantitative fluorescent PCR as described in NGENS DNG0019 and NGENS DNG0015
Receipt of NGS data	Mitochondrial whole genome sequencing	SOP: Whole mtDNA NGS data analysis as described in NGENS DNG0028 using in house pipeline
Receipt of Sanger data and MLPA data	Confirmation of pathogenic variation	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
Data extracted following Next Generation Sequencing Analysis	Variant interpretation	Bioinformatic analysis with reference to: Output from in house pipeline
END		