Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

8523

Accredited to ISO 15189:2022

Illumina Cambridge Limited, operating as Illumina Laboratory Services (ILS)

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Testing performed by the Organisation at the locations specified below

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details	Activity	Location code
Address Illumina Laboratory Services Illumina Centre 19 Granta Park Great Abington Cambridge CB21 6DF **Local contact** Tom Ives	Human Genomic DNA sequencing	A

Site activities performed away from the locations listed above:

Location details	Activity	Location code
Address Illumina Laboratory Services Ogilvie Building Wellcome Trust Genome Campus Hinxton Cambridge CB10 1DR **Local contact** Tom Ives	Human Genomic DNA sequencing	B

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY TISSUES and FLUIDS	<u>Molecular Genetics</u>		
Extracted DNA received from external sources from patients with cancer and rare diseases.	Whole genome sequencing Identification of: Single Nucleotide Variants (SNVs) Indels Copy Number Variations (CNVs) Structural Variant (SVs) Short tandem repeats (STRs) In somatic or germline context.	Whole human genome sequencing to at least an average depth of 30x using SBS. Documented in-house procedures:	A, B
		Sample quality control Using Sample Quality Contol SOP: 1000000001814 and ILS-SOP000000006) and Hamilton Star Molecular Devices SpectraMax Roche Lightcycler	A, B
Extracted DNA received from external sources from patients with cancer and rare diseases.		**TruSeq DNA Library Preparation and Sequencing** using: Overarching examination SOP: 1000000001818 and NovaSeq PCR Free SOP: ILS-SOP000000006 and Hamilton Star Illumina NovaSeq Molecular Devices SpectraMax Covaris M220 (Standard and plus) Roche Lightcycler	A, B

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY TISSUES and FLUIDS (cont'd)	Molecular Genetics (cont'd)	Whole genome sequencing to at least an average depth of 30x using SBS. Documented in-house procedures:	
Extracted DNA received from external sources from patients with cancer and rare diseases.		**DNA PCR-Free Library Preparation- ILP QC and Sequencing** Using Hamilton Star, Illumina NovaSeq, Roche Lightcycler, Illumina NovaSeq (1000000001818 and ILS-SOP000000006)	A,B
Internally extracted DNA from Blood		**DNA PCR-Free Library Preparation- ILP QC and Sequencing** Using Hamilton Star, Illumina NovaSeq, Roche Lightcycler, Illumina NovaSeq (1000000001818 and ILS-SOP000000006)	A,B
Genomic DNA extracted in house from Blood or received from external sources from patients with cancer and rare diseases.		**Data Analysis and Delivery** using: Sequence Data Analysis SOP: ILS-SOP000000008 Review, Reporting and Release SOP: 1000000001819 and: Illumina Secondary Analysis Pipeline Illumina Clarity LIMS Illumina Basespace Sequence Hub and Dragen Germline and Somatic BaseSpace Applications.	A, B

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY TISSUES and FLUIDS (cont'd)	Molecular Genetics (cont'd)		
Blood.	DNA Extraction and Whole genome sequencing Identification of: Single Nucleotide Variants (SNVs), Indels, Copy Number Variations (CNVs), Structural Variant (SVs), Short tandem repeats (STRs).	Extraction and whole genome sequencing to at least an average depth of 30x using SBS. Documented in-house procedures: **DNA extraction** Using Illumina Lysis, (1000000001818 and ILS-SOP000000006) **DNA PCR-Free Library Preparation- ILP QC and Sequencing** Using Hamilton Star, Illumina NovaSeq, Roche Lightcycler, Illumina NovaSeq (1000000001818 and ILS-SOP000000006)	A A, B
Blood	DNA Extraction and quality check for subsequent in-house analysis	Extraction of Human DNA. Documented in-house procedures: **DNA extraction** Using MagMax (1000000001818 and ILS-SOP000000006) **Sample quality control** Using Unchained Labs Lunatic Spectrophotometer (1000000001818 and ILS-SOP000000006) Using Hamilton Star, Molecular Devices SpectraMax (1000000001814 and ILS-SOP000000006)	A A A
END			