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:** Ciara Simms	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:** Ciara Simms	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 Genomic DNA extracted in-house from Blood or received from external sources for patients with cancer and rare diseases.	<u>Molecular Genetics</u> 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

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:	
Genomic DNA extracted in house from Blood or received from external sources for patients with cancer and rare diseases.		**Illumina DNA PCR-Free Library Preparation- ILP QC and Sequencing** Using Hamilton Star, Roche Lightcycler, Illumina NovaSeq (1000000001818 and ILS-SOP000000006)	A, B
		Illumina DNA PCR-Free Library Preparation- ILP QC and Sequencing Using Hamilton Star, 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, Automated plating and extraction using Hamilton Star and Illumina Lysis and manual pathway (1000000001818 and ILS-SOP000000006) **Illumina DNA PCR-Free Library Preparation- ILP QC and Sequencing** Using Hamilton Star, Roche Lightcycler, Illumina NovaSeq (1000000001818 and ILS-SOP000000006) **Data Analysis and Delivery** Using: Sequence Data Analysis SOP: ILS-SOP000000001819 And Illumina Secondary Analysis Pipeline Illumina Clarity LIMS Illumina BaseSpace Sequence Hub and Dragen Germline and Somatic BaseSpace Applications	A 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 quality check for subsequent in-house analysis	Extraction of Human DNA. Documented in-house procedures:	
		DNA extraction Using MagMax (1000000001818 and ILS-SOP000000006)	A
		Sample quality control Using Unchained Labs Lunatic Spectrophotometer (1000000001818 and ILS-SOP000000006)	A
		Using Hamilton Star, Molecular Devices SpectraMax (1000000001814 and ILS-SOP000000006)	A, B
Blood	Automated DNA Extraction for subsequent in-house analysis	Automated plating and extraction Using Hamilton Star and Illumina Lysis, (1000000001818 and ILSSOP000000006)	A
END			