

ACCREDITATION PROGRAM (LAP)

Scope of Accreditation

Legal Name of Accredited Laboratory: **British Columbia Institute of Technology
BCIT Forensic DNA Laboratory**

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SCC File Number:	151016
Accreditation Standard(s):	ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories
Fields of Testing:	Forensic Biology / DNA Relationship
Program Specialty Area:	Forensic
Initial Accreditation:	2016-05-26
Most Recent Accreditation:	2023-11-17
Accreditation Valid to:	2028-05-26

FORENSICS

Forensic Biology / DNA

Description of Activities:

- Evidence examination, identification of biological evidence including presumptive and confirmatory testing of body fluids (blood, semen, and saliva).

- Nuclear DNA analysis (autosomal STR and Y-STR) including the DNA extraction, quantification of human and male DNA, PCR amplification and capillary electrophoresis.
- Sequencing of autosomal STRs, Y-STRs, X-STRs, Identity SNPs, Phenotypic SNPs and biogeographical ancestry SNPs of human DNA.
- Interpretation of single source and mixed DNA profiles to establish associations between crime scene evidence and known reference samples, parentage/kinship analysis and reporting.

Description of Techniques:

- a. Forensic DNA analysis (screening, DNA extraction, quantification, PCR amplification, capillary electrophoresis and sequencing)
- b. Human body fluid identification - microscopic and biochemical procedures
- c. Interpretation of DNA profiles and statistical analysis

Number of Forensic Technique Listings: 3

Notes:

ISO/IEC 17025:2017: General Requirements for the Competence of Testing and Calibration Laboratories

SCC RG-FORENSIC: SCC Requirements and Guidance for the Accreditation for Forensic Testing Laboratories

STR: Short tandem repeat

SNP: single nucleotide polymorphism

PCR: polymerase chain reaction

DNA: deoxyribonucleic acid

A controlled list of test methods under the current flexible scope is maintained by the laboratory and is available upon request.

This document forms part of the Certificate of Accreditation issued by the Standards Council of Canada (SCC). The original version is available in the Directory of Accredited Laboratories on the SCC website at www.scc.ca.

Elias Rafoul
Vice-President, Accreditation Services
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