

TESTING AND CALIBRATION LABORATORY ACCREDITATION PROGRAM (LAP)

Scope of Accreditation

Accredited Laboratory No. 900

Legal Name of Accredited Laboratory: Investigation Services Forensic Unit

Government of Alberta

Location Name or Operating as (if applicable):

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SCC File Number:	151093
Accreditation Standard(s):	ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories
Fields of Testing:	Forensic
Program Specialty Area:	Forensic
Initial Accreditation:	2019-08-13
Most Recent Accreditation:	2021-05-16
Accreditation Valid to:	2023-08-13

Remarque: La présente portée d'accréditation existe également en français, sous la forme d'un document distinct.

Note: This scope of accreditation is also available in French as a separately issued document.

FORENSICS

Forensic Biology / DNA

Description of Activities:

Forensic DNA analysis of fish and wildlife samples. This includes exhibit examination and handling, case management, autosomal STR DNA analysis, interpretation and comparison of DNA profiles, sex typing by DNA analysis, production of forensic statistics, reports and other court documents.

Techniques for which the laboratory is accredited:

- 1) DNA extraction from biological materials using robotic and manual platforms.
- 2) Direct Polymerase Chain Reaction (PCR) DNA amplification using autosomal STRs and capillary electrophoresis in wildlife
- 3) Sex Typing of wildlife via DNA analysis
- 4) Interpretation and comparison of DNA typing profile data.

Wildlife species analyzed include:

White Tailed deer
 Mule Deer
 Elk
 Black Bear
 Grizzly Bear
 Cougar
 Bighorn Sheep
 Moose
 Walleye

All test methods share the following SOPs:

- DNA Extraction Using the KingFisherML
- DNA Quantification and Dilution
- QIAcube DNeasy Protocol for Extraction of DNA
- Qiagen DNeasy Manual Protocol for Extraction of DNA
- DNA Amplification using ABI TAQ Gold or Qiagen Multiplex PCR Kit
- Operation of 3500 Genetic Analyzer for Fragment Analysis

Number of Forensic Technique Listing: 4

Notes:

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

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



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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