



Solutions



Genetic Identification



Forensics



Environmental



Petroleum/Industrial



Food Safety



Value Added Services

Forensic Biology Services

We utilize forensic biology screening and DNA techniques that are validated and accepted by both the scientific and legal communities. We combine these services and our expertise to solve our client's most difficult challenges.

What we Accept

Our world-wide client base consists of law enforcement agencies, corporations and individuals. We analyse a variety of case types including:

- ◆ Homicides
- ◆ Sexual assaults
- ◆ Contaminated products
- ◆ Accident investigations
- ◆ Break and enters
- ◆ Threatening mail
- ◆ Fatal motor vehicle accidents
- ◆ Questioned biological relationships.

Evidence Integrity

As forensic biologists and expert witnesses, we are aware of the importance of continuity and evidence integrity in criminal proceedings.

Consequently, we take measures, which are documented, to maintain the integrity and continuity of all items and samples generated throughout the entire process.

Item Examination & DNA Analysis

The examinations we perform:

- ◆ Identification of blood, semen and saliva
- ◆ Hair collection and examination for nuclear DNA suitability
- ◆ Sampling and processing of items for "wearer" or "handler" profiles
- ◆ DNA analysis using the 13 CODIS STR loci
- ◆ Profiles that are formatted to be compatible for CODIS entry
- ◆ Processing of difficult samples such as bone, teeth, tissue and hair for DNA
- ◆ Interpretation of complex mixtures and low level DNA.

To ensure that alternative or additional examinations are considered and that every effort to resolve a case is made, any findings discovered during examination will be clearly communicated to the client.

Case Assessment

Our staff assesses the case particulars and consults with the client so that the examinations are directed by the needs of our client. We strive to ensure at the onset of a case that the most probative examinations are done in both a timely and cost effective manner.

Many of our staff have been trained at forensic laboratories that are multi-disciplined. Accordingly, we have an appreciation for these other forensic disciplines and incorporate this knowledge into our examinations. Some of these other areas include:

- ◆ Bloodstain pattern analysis
- ◆ Toxicology/ drug analysis
- ◆ Fingerprinting
- ◆ GSR
- ◆ Trace evidence
- ◆ Chemistry

We ensure measures are taken to avoid loss of or alterations to non-biological evidence. In consultation with our clients we can arrange for forensic experts in these other disciplines to conduct further analyses, if required.

Please turn over for:

Customized Reports & Other Valuable Services

Customized Reports

We endeavour to make our reports understandable and customize them to address client requests. Each report contains details on the specific tests used and the limitations of these methods:

Screening for Blood:

Includes a description of the three stage Kastle-Meyer test

Screening for Semen

Includes information on the Brentamine Fast-Blue test for acid phosphatase, microscopic identification of spermatozoa and the PSA test

Identification of Cellular Material

Describes the microscopic examination of sampled material

Screening for Saliva

Includes a description of the Phadebas® amylase test

Examination of Hair

Describes the microscopic examination of hairs for nuclear DNA suitability

DNA Analysis

Description of the STR loci analyzed, extraction methods and the use of population databases for statistical estimations.

Other Valuable Services

- ◆ Rapid turn-around-times
 - √ ~99% of cases reported meet the agreed due date
 - √ We offer rapid 5-day turn around times.
- ◆ Item/sample return and reports sent to all individuals as requested
- ◆ Consultation and independent laboratory reviews
- ◆ Provision of expert testimony
- ◆ Educational sessions and documentation designed for specific interests of clients.

For more information about how we can help you with your forensic investigations and the services we offer, or to schedule an informational session at your location, please contact us by any method listed below.

Genetic Identification

335 Laird Road, Unit 4
Guelph, ON Canada N1H 6J3

Phone: (519) 836-2400

Fax: (519) 836-2377

email: forensics@maxxamalytics.com

**Call toll-free from anywhere
in North America
1-877-706-7678**