

AGAT Laboratories 

Forensic Services for Fire and Arson

Proud to offer Arson Forensic Testing Services

Our Forensic Sciences Laboratory meets all requirements of RG-Forensic (SCC Requirements and Guidance for the Accreditation for Forensic Testing Laboratories), ensuring you receive the highest quality results.

Our laboratory has supported a variety of investigators in complex environments and situations, including for law enforcement when legally defensible results are a must.

The “Service Beyond Analysis” motto has truly come forward with this specialized laboratory delivering quality and timely service to the industry.

Fast TAT

With one of the industry’s fastest turnaround times AGAT offers standard 7-10 business days for regular service and can deliver 48 hour results when you need information in a hurry.

Expert Analysis

Our Lead Chemist, Dr. Ron Brockbank, has over 25 years’ experience analyzing a wide range of sample and matrix types. Our laboratory staff are certified analysts, and their continued certification remain up-to-date through participation in proficiency testing programs and training.

Expert Interpretation

Our team is working alongside one of the leading firms for enhanced forensic data interpretation, Chemistry Matters Inc. For very complex fire debris samples, with high levels of background interference, Dr. Court Sandau brings his expertise and experience to isolate and identify ignitable liquid residues (ILR) in the samples, and separate chemical profiles from naturally occurring compounds in complex sample matrices.

 **chemistry
matters**



Local Service

AGAT Laboratories Arson Forensics Testing Laboratory offers the only commercial laboratory service in Western Canada for Arson Forensics. However, AGAT Laboratories has depots across Canada that can be used as sample drop-off and supply pick-up locations. This equates to shorter sample delivery times, faster results, and expedited investigation closures for you and your team.

Preservation of Evidence Samples & Sample Extracts

Forensics laboratories must ensure that fire debris samples, liquid samples, and sample extracts are preserved in accordance with ASTM E2451 to ensure sample integrity in the event of possible reanalysis. Samples are properly labeled for ease of retrieval and traceability. AGAT has developed a fully documented chain-of-custody procedure for sample intake, logging, processing and long-term storage.

Extracts and Liquid Samples

Vials should be tightly sealed with PTFE-Silicone-PTFE (triple layer) cap to eliminate or minimize evaporation, and stored in a locked fridge at $4 \pm 3^{\circ}\text{C}$.

Fire Debris Samples

Samples are tightly sealed to prevent cross contamination, and stored in a locked freezer at $-20 \pm 5^{\circ}\text{C}$ to ensure long-term integrity of the sample.

Appropriate handling and analysis of fire debris samples must be followed to ensure optimum recovery of ILR. All processes and results are subject to strict scrutiny in a Court of Law. Appropriate sample containers must be used, and proper sample storage, security, and sample chain-of-custody records must be maintained.

Importance of the trip blank and comparison sample(s) provide for better control of sample collection/transport process and interpretation of analytical results. All steps associated with the handling, processing and analysis of fire debris samples must be considered.

Contact Information

Our Forensic Services Laboratory is located at 2420 42nd Avenue NE in Calgary, Alberta. To arrange a tour of our facility, or to arrange pick up of sampling supplies, please contact us at **403-736-5300** or email at **info@agatlabs.com**.

For more information on these and other services AGAT provides, go to **www.agatlabs.com** or contact:

Lisa Neville, Director of Technical Sciences
C: **403.919.0506** E: **neville@agatlabs.com**