



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

MICROTRACE LLC
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FORENSIC TESTING

Valid To: April 30, 2023

Certificate Number: 5106.01

In recognition of the successful completion of the A2LA evaluation process (including compliance to *R221 - Specific Requirements - Forensic Examination Accreditation Program-Testing and Calibration*), accreditation is granted to this organization to perform testing on the trace evidence subdisciplines listed below using the following test technologies and methods:

Biological Materials:

Animal hair and feathers, body fluids, botanicals, human hair, pollen and spores, tooth, bone, and tissue, vegetable fibers, wood.

Non-Biological/Anthropogenic Materials:

Adhesives, building materials, chemicals, dyes, pigments, ink, explosives and post-blast residues, food and food ingredients, geological materials (sand, soil, minerals, dust), glass and ceramics, gunshot and firearms residues, lubricants, oil, and grease, metal and corrosion products, nanomaterials, paint and coatings, paper, pharmaceuticals (drugs, excipients, illicit, legal), polymers (multi-laminate films, elastomers), synthetic fibers and textiles, tapes and adhesives.

Unknowns and Contaminants:

Airborne dust and pollution, building materials, fire debris, combustion products, soot, environmental and settled dust, food contaminants, foreign matter and contaminants, pharmaceutical contaminants, smear, residues, liquids, white powders.

<u>Test/Test Technologies</u>	<u>Test Methods</u>
<u>Physical Examination</u> <ul style="list-style-type: none"> • Physical Measurements • Pattern Comparison, Pattern Recognition • Documentation and Illumination, including Alternative Light Sources (ultraviolet through infrared imaging, fluorescence, ESDA, radiography) 	TP0001, TP0017
<u>Chemistry</u> <ul style="list-style-type: none"> • Microchemical Methods (staining, solubility testing, spot tests, microcrystal tests, immunoassays) • Thin Layer Chromatography 	TP0018, TP0019
<u>Microscopy</u> <ul style="list-style-type: none"> • Light (stereo, polarized, comparison, white light interferometry, fluorescence, phase contrast, GRIM, <i>etc.</i>) • Electron (scanning electron microscopy, field emission SEM, transmission electron microscopy) 	TP0002 – 0004, TP0006 – 0007, TP0024
<u>Microanalytical Methods</u> <ul style="list-style-type: none"> • Microspectroscopy (infrared, NIR, UV/Visible/NIR, fluorescence, Raman) • Mass Spectrometry (GC/MS, pyrolysis-GC/MS, UPLC/HR-MS/MS) • X-Ray and Diffraction (XRD, EDS, micro-XRF, EBSD, SAED) • Thermal Analysis (DSC, hot stage microscopy) 	TP0005, TP0008 – 0013, TP0020, TP0021, TP0026 – TP0028
<u>General Laboratory Procedures</u> <ul style="list-style-type: none"> • Sample Preparation • Sectioning and Polishing • Photography 	TP0014, TP0016, TP0022, TP0023





Accredited Laboratory

A2LA has accredited

MICROTRACE LLC

Elgin, IL

for technical competence in the field of

Forensic Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This laboratory also meets the requirements of A2LA R221 - *Specific Requirements: Forensic Examination Accreditation Program – Testing and Calibration*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 29th day of April 2021.

A blue ink signature of the Vice President of Accreditation Services.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 5106.01
Valid to April 30, 2023

For the tests to which this accreditation applies, please refer to the laboratory's Forensic Scope of Accreditation.