



# CERTIFICATE OF ACCREDITATION

**ANSI-ASQ National Accreditation Board**  
5300 W. Cypress Street, Suite 180, Tampa, FL 33607, 813-443-0517

This is to certify that

**Microtrace LLC**  
**790 Fletcher Drive**  
**Elgin, IL 60123-475**

has been assessed by ANAB  
and meets the requirements of international standard

**ISO/IEC 17025:2005**

while demonstrating technical competence in the field(s) of

**FORENSIC TESTING**

Refer to the accompanying Scope(s) of Accreditation for information regarding the types of tests to which this accreditation applies.

AT-1932

Certificate Number

ANAB Approval

Certificate Valid to: 03/23/2019  
Version No. 001      Issued: 03/23/2015



This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. 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 January 2009*).



# ANSI-ASQ National Accreditation Board

## SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

### Microtrace LLC

790 Fletcher Drive, Suite 106  
Elgin, IL 60123-475  
(847) 742-9909

Contact: Christopher Palenik, Ph.D. Email: quality@microtracellc.com

## FORENSIC TESTING

Valid to: March 23, 2019

Certificate Number: AT-1932

### 1.0 Materials Examined

Category	Sub Category	Analytical Technique (See 2.0)
1 Trace evidence	<p>1.1. Biological material</p> <ul style="list-style-type: none"><li>• Animal hair and feathers</li><li>• Body fluids</li><li>• Botanical</li><li>• Human hair</li><li>• Pollen and spores</li><li>• Tooth, bone, and tissue</li><li>• Vegetable fibers</li><li>• Wood</li></ul> <p>1.2 Non-biological anthropogenic materials</p> <ul style="list-style-type: none"><li>• Building materials</li><li>• Chemicals</li><li>• Dyes and pigments</li><li>• Explosives</li><li>• Food and food ingredients</li><li>• Geological materials (sand, soil, minerals, dust)</li><li>• Glass and ceramics</li><li>• Gunshot and firearms residues</li></ul>	<p>2.1.1, 2.1.2, 2.1.3, 2.2.1, 2.2.2, 2.3.1, 2.3.2, 2.4.1, 2.4.2, 2.4.3, 2.5</p> <p>2.1.1, 2.1.2, 2.1.3, 2.2.1, 2.2.2, 2.3.1, 2.3.2, 2.4.1, 2.4.2, 2.4.3, 2.5</p>



	<ul style="list-style-type: none"> <li>• Ink</li> <li>• Metal and corrosion products</li> <li>• Nanomaterials</li> <li>• Oil and grease</li> <li>• Paint and coatings</li> <li>• Paper</li> <li>• Pharmaceuticals (drugs, excipients, illicit, legal)</li> <li>• Polymers</li> <li>• Synthetic fibers and textiles</li> <li>• Tapes and adhesives</li> </ul> <p>1.3 Unknowns and contaminants</p> <ul style="list-style-type: none"> <li>• Airborne dust and pollution</li> <li>• Building materials</li> <li>• Environmental and settled dust</li> <li>• Fire debris</li> <li>• Foreign matter and contaminants</li> <li>• Smears, residues, and liquids</li> <li>• White powders</li> </ul>	<p>2.1.1, 2.1.2, 2.1.3, 2.2.1, 2.2.2, 2.3.1, 2.3.2, 2.4.1, 2.4.2, 2.4.3, 2.5</p>
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## 2.0 Analytical Technique/Test Method

<p>2.1 Physical examination</p> <ul style="list-style-type: none"> <li>2.1.1 Physical measurements</li> <li>2.1.2 Pattern comparison, pattern recognition</li> <li>2.1.3 Documentation and illumination, including alternative light sources</li> </ul>
<p>2.2 Chemistry</p> <ul style="list-style-type: none"> <li>2.2.1 Microchemical methods</li> <li>2.2.2 Thin layer chromatography</li> </ul>
<p>2.3 Microscopy</p> <ul style="list-style-type: none"> <li>2.3.1 Light (stereo, polarized, comparison, interference, fluorescence, phase contrast, thermal, ultraviolet, GRIM)</li> <li>2.3.2 Electron (scanning electron microscopy, field emission SEM, transmission electron microscopy)</li> </ul>
<p>2.4 Microanalytical Methods</p>

2.4.1 Microspectroscopy (infrared, NIR, UV/VIS/NIR, fluorescence, Raman)

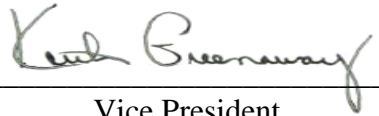
2.4.2 Mass spectrometry (GC/MS, pyrolysis-GC/MS)

2.4.3 X-ray (XRD, EDS, XRF, SAED)

2.5 General Laboratory Procedures

**Notes:**

1. This scope is formatted as part of a single document including the Certificate of Accreditation No. AT-1932



Vice President