Utilize Eurofins EAG to extend your analytical R&D.

We provide support for your in-house lab if you need additional instrumental techniques, expanded capacity, or just more hours in the day.

Eurofins EAG can provide either the raw data or a comprehensive analytical report, including technical data and expert interpretation of results.

<table>
<thead>
<tr>
<th>Technique Highlight</th>
</tr>
</thead>
<tbody>
<tr>
<td>DMA</td>
</tr>
<tr>
<td>DSC</td>
</tr>
<tr>
<td>FTIR</td>
</tr>
<tr>
<td>GC</td>
</tr>
<tr>
<td>GC/MS</td>
</tr>
<tr>
<td>LC</td>
</tr>
<tr>
<td>LC/MS</td>
</tr>
<tr>
<td>PT-AED</td>
</tr>
<tr>
<td>HPLC</td>
</tr>
<tr>
<td>IC</td>
</tr>
<tr>
<td>LC/MS</td>
</tr>
<tr>
<td>NMR</td>
</tr>
<tr>
<td>Pyro-GCMS</td>
</tr>
<tr>
<td>SEM-EDS</td>
</tr>
<tr>
<td>TGA</td>
</tr>
<tr>
<td>TMA</td>
</tr>
<tr>
<td>UV/VIS/NIR</td>
</tr>
<tr>
<td>OTHER OPTIONS</td>
</tr>
</tbody>
</table>

- Coefficient of thermal expansion
- Comparative product analysis
- Component molecular weight
- Compositional comparison
- Elemental composition
- Elemental identification, failure analysis
- Identification/confirmation of chemical ID
- Identification of solvents
- Identification/quantification of contaminants
- Materials identification
- Optical properties
- Particle identification
- Polymer backbone chemistry
- Polymer characterization
- Polymer molecular weight, branching/degradation
- Quantitation of bulk components
- Quantitation of trace components
- Viscoelastic behavior of polymers

Our complete list of instrumentation can be found at eag.com/techniques.
Why Choose Eurofins EAG for Chemistry Services?

Scientists at our analytical laboratories take a customized, client-centered approach to addressing chemical identification, deformulation and materials testing problems. Results from our labs have helped resolve manufacturing issues, supported product development programs and provided unique data to strongly defend legal cases.

Our customized approach applies multiple methods of chemical analysis and state-of-the-art instrumentation to help clients understand a product's chemistry. We can support the research and development activities for your company or become your own virtual R&D analytical chemistry laboratory.

Utilizing these techniques we can separate, identify and quantify chemical components of a material. More importantly, our expert scientists both interpret and effectively communicate the resulting data for real solutions and actions that make a difference to our clients bottom line and business success.

Quality
- US FDA CDER GDUFA Self-Identification
- US FDA cGMP and GLP Inspected
- DEA Controlled Substance Registration (Schedule I-V)

Global Support
As the global leader in materials and engineering sciences, Eurofins EAG Laboratories supports thousands of clients with 20+ facilities located in the US, Europe and Asia.

More Than 60 Years in Chemistry & Growing
- 2011 EAG (Evans Analytical Group) acquires St. Louis, Missouri-based Chemir Analytical Services, a 20,000 sq. ft. laboratory originally founded in 1958
- 2017 EAG is acquired by Eurofins Scientific
- 2018 Eurofins EAG acquires the former Materials Analysis lab of Philips Lighting (now Signify), a 25,000-plus sq. ft. laboratory in Eindhoven, the Netherlands

Compositional Analysis & Material Identification
- Determine the identity or source of a material
- Characterize a material from a potential competitor or vendor

Contaminant ID & Contamination Control
- Search for and identify contaminants and their sources
- Measure the effectiveness of contaminant removal/cleaning processes

Consumer & Industrial Product Testing
- Evaluate the safety of new or existing products
- Address issues with the US Consumer Product Safety Commission or other regulatory bodies

Custom Synthesis
- Design and prepare specific unique organic compounds
- Protection of confidentiality and intellectual property

Deformulation/Reverse Engineering
- Identify and quantify the components of a complex mixture or a competitor’s product

Extractables & Leachables
- Identify chemicals released from a product through normal use or extreme conditions
- Assess the reliability of products or parts exposed to solvent chemicals or other environmental stress (heat, light, humidity, vibration)

Failure Analysis
- Determine the reason for poor product performance or failure
- Resolve the indicators of failure and determine root cause

Litigation Support & Consulting
- Resolve legal issues with analytical integrity, accurate testing, professional data interpretation and expert testimony

Material & Product Reliability
- Analyze structural problems related to design or electrical failures
- Perform climate, impact, HALT, MEOST and Ingress Protection testing

Medical Device Testing
- Test proof-of-concept and preliminary performance
- Evaluate safety, quality, supplier’s and demonstrate control of manufacturing (ISO 10993 Part 18)

Particle Testing & Analysis
- Identify, size and count particles (USP <788>)

Polymer Analysis
- Identify, quantifies, contaminants, off-odors and colors
- Compare good vs. bad lots of samples

Surface Analysis
- Solve issues with adhesion and bonding, cleanliness and investigations regarding morphology, topography and hardness

Test Design
- Perform online quality control with custom test design and on-site installation
Why Choose Eurofins EAG for Chemistry Services?

Scientists at our analytical laboratories take a customized, client-centered approach to addressing chemical identification, deformation and materials testing problems. Results from our labs have helped resolve manufacturing issues, supported product development programs and provided unique data to strongly defend legal cases.

Our customized approach applies multiple methods of chemical analysis and state-of-the-art instrumentation to help clients understand a product’s chemistry. We can support the research and development activities for your company or become your own virtual R&D analytical chemistry laboratory.

Utilizing these techniques we can separate, identify and quantify chemical components of a material. More importantly, our expert scientists both interpret and effectively communicate the resulting data for real solutions and actions that make a difference to our clients bottom line and business success.

Quality

- US FDA CBIR GDUFAR Self-Identification
- US FDA CGMP and GMP Inspected
- DEA Controlled Substance Registration (Schedule I-V)

Global Support

As the global leader in materials and engineering sciences, Eurofins EAG Laboratories supports thousands of clients with 20+ facilities located in the US, Europe and Asia.

More Than 60 Years in Chemistry & Growing

- 2011 EAG (Evans Analytical Group) acquires St. Louis, Missouri-based Chemir Analytical Services, a 20,000 sq. ft. laboratory-originally founded in 1958
- 2017 EAG is acquired by Eurofins Scientific
- 2018 Eurofins EAG acquires the former Materials Analysis lab of Philips Lighting (now Signify), a 25,000-plus sq. ft. laboratory in Eindhoven, the Netherlands.

Compositional Analysis & Material Identification

- Determine the identity or source of a material
- Characterize a material from a potential competitor or vendor

Contaminant ID & Contamination Control

- Search for and identify contaminants and their sources
- Measure the effectiveness of contaminant removal/cleaning processes

Consumer & Industrial Product Testing

- Evaluate the safety of new or existing products
- Address issues with the US Consumer Product Safety Commission or other regulatory bodies

Custom Synthesis

- Design and prepare specific unique organic compounds
- Protect confidentiality and intellectual property

Deformulation/Reverse Engineering

- Identify and quantify the components of a complex mixture or a competitor’s product

Extractables & Leachables

- Identify chemicals released from a product through normal use or extreme conditions
- Assess the Reliability of products or parts exposed to ambient conditions or other environmental stress (stress, light, humidity, vibration)

Failure Analysis

- Determine the reasons for poor product performance or failure
- Reconstitute the indicators of failure and determine root cause

Litigation Support & Consulting

- Resolve legal issues with analytical integrity, accurate testing, professional data interpretation and expert testimony

Material & Product Reliability

- Analyze structural problems related to design or electrical failures
- Perform climate, impact, HALT, MEOST and Ingress Protection testing

Medical Device Testing

- Test proof-of-concept and preliminary performance
- Evaluate safety, quality, supplies and demonstrate control of manufacturing (ISO 10993 Part 18)

Particle Testing & Analysis

- Identify, size and count particles (USP <788>)

Polymer Analysis

- Identify, analyze, contaminants, off-odors and colors
- Compare good vs. bad lots of samples

Surface Analysis

- Solve issues with adhesion and bonding, cleanliness and investigations regarding morphology, topography and hardness

Test Design

- Perform on-line quality control with custom test design and on-site installation
Utilize Eurofins EAG to extend your analytical R&D

We provide support for your in-house lab if you need additional instrumental techniques, expanded capacity, or just more hours in the day.

Eurofins EAG can provide either the raw data or a comprehensive analytical report, including technical data and expert interpretation of results.

Coefficient of thermal expansion
Comparative product analysis
Component molecular weight
Compositional comparison
Biological composition
Elemental identification, failure analysis
Identification/confirmation of chemical ID
Identification of solvents
Identification/quantification of cations/anions
Material identification
Optical properties
Particle identification
Polymer backbone chemistry
Polymer characterization
Polymer molecular weight, branching/degradation
Quantitation of bulk components
Quantitation of trace components
Viscoelastic behavior of polymers

Technique Highlight

DMA
DSC
FTIR
GC
HPLC
LC
LDMS
MSR
Pyro-GCMS
SEM-EDS
TGA
TMA
UV/VIS/NIR
OTHER OPTIONS

Coefficient of thermal expansion
Comparative product analysis
Component molecular weight
Compositional comparison
Biological composition
Elemental identification, failure analysis
Identification/confirmation of chemical ID
Identification of solvents
Identification/quantification of cations/anions
Material identification
Optical properties
Particle identification
Polymer backbone chemistry
Polymer characterization
Polymer molecular weight, branching/degradation
Quantitation of bulk components
Quantitation of trace components
Viscoelastic behavior of polymers

MALDI
IR
XRF, ICP-OES
Raman
Raman, MALEX
XRD, XRF
Raman, MALEX
XRF
ICP-MS/OES
AFM, Nanoindentation

Our complete list of instrumentation can be found at eag.com/techniques.