

LEVERAGE THE POWER OF **CHEMISTRY**
FOR ANSWERS AND INNOVATION



EAG
Laboratories



Why Choose Eurofins EAG for Chemistry Services?

Scientists at our analytical laboratories take a customized, client-centered approach to addressing chemical identification, reformulation 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

- ISO 9001:2015, ISO 17025:2017
- 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 various chemicals or other environmental stress (heat, light, humidity, vibration)

Failure Analysis

- Determine the reasons for poor product performance or failure
- Recognize 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, qualify suppliers and demonstrate control of manufacturing (ISO 10993 Part 18)

Particle Testing & Analysis

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

Polymer Analysis

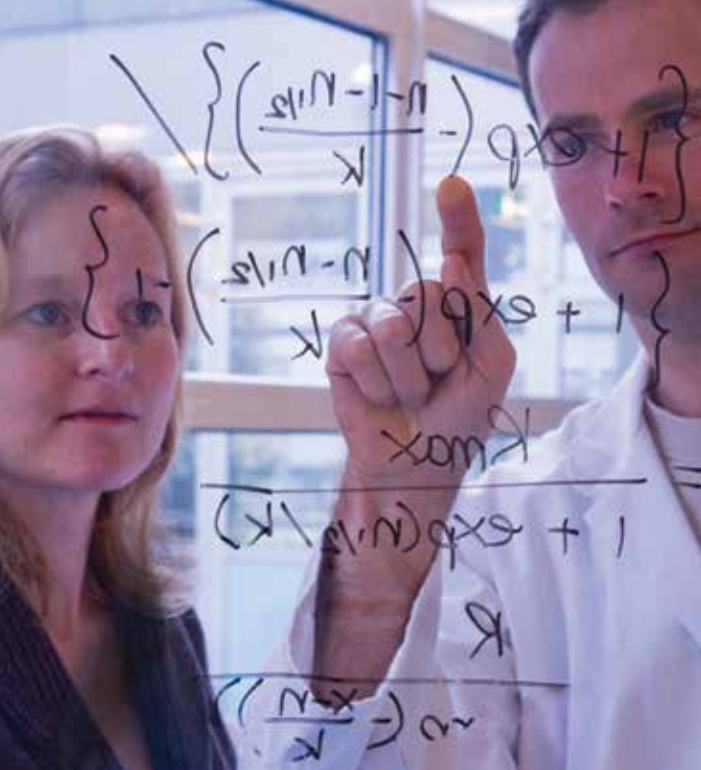
- Identify additives, contaminants, off-odors and colors
- Compare good vs. bad lots of samples

Surface Analysis

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

Test Design

- Perform in-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.



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	Technique Highlight															
	DMA	DSC	FTIR	GC	GCMS	GPC	HPLC	IC	LCMS	NMR	Pyro-GCMS	SEM-EDS	TGA	TMA	UV/MS/NIR	OTHER OPTIONS
Coefficient of thermal expansion														✓		
Comparative product analysis	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Component molecular weight						✓			✓							MALDI
Compositional comparison			✓		✓				✓	✓						XPS
Elemental composition												✓				XRF, ICP-OES
Elemental identification, failure analysis												✓				XRF, Auger
Identification/confirmation of chemical ID			✓		✓					✓						
Identification of solvents				✓	✓						✓					
Identification/quantification of cations/anions								✓								
Materials identification			✓				✓	✓	✓	✓		✓				XRD, XRF
Optical properties															✓	Ellipsometry
Particle identification			✓									✓				Raman
Polymer backbone chemistry										✓	✓					
Polymer characterization	✓	✓	✓										✓	✓		Raman, MALDI
Polymer molecular weight, branching/degradation						✓										
Quantitation of bulk components					✓		✓			✓			✓			XRF
Quantitation of trace components				✓	✓		✓		✓		✓					XRF, ICP-MS/OES
Viscoelastic behavior of polymers	✓	✓												✓		AFM, Nanoindentation

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