

INSTRUMENTATION

SPECTROSCOPY

- Energy Dispersive X-Ray (EDX)
- Mid-Infrared (FTIR) Spectroscopy
- Near-Infrared (NIR) Spectroscopy
- UV/visible Spectroscopy (UV/vis)
- X-ray Diffraction (XRD)

MICROSCOPY

- Scanning Electron Microscope (SEM)
- Optical Microscopy (OPMIC)
- Particle Size Analysis (PSIZE)
- FTIR Microscopy (FTIRM)

TRACE ANALYSIS

- ICP Atomic Emission (ICP-OES)
- ICP Mass Spectrometry (ICP-MS)
- Graphite Furnace (GF-AAS)

SEPARATIONS

- Gas Chromatography (GC/GCMS)
- Headspace GCMS
- Pyrolysis GCMS
- Gel Permeation Chromatography (GPC/SEC)
- Ion Chromatography (IC)
- Liquid Chromatography (HPLC)
- Thin Layer Chromatography (TLC)

THERMAL ANALYSIS

- Thermogravimetric Analysis (TGA)
- Differential Scanning Calorimetry (DSC)

WET CHEMISTRY

- Composition analysis
- Wastewater Analysis
- Food Ingredients
- Corrosion Testing
- Deformulation

COMPENDIAL METHODS

- USP, FCC, ASTM, AOAC, EPA, DOT, UN, OECD
- Elemental Impurities <232><233>
- Residual Solvents <467>
- FTIR ID <197>
- Method Validation <1225><1226>
- Fats & Oils <401>
- Packaging <661.1><661.2>
- Melting Range <741>
- Water Content <921>
- Chemical Stability & Shelf Life
- Monograph Testing

CASE STUDIES

- Device Contaminants
- Residual Solvents & Product Contamination
- Chemical Identification
- Volatile Organic Compounds & Odors
- Patent Infringement
- Corrosion & Corrosivity

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CHEMICAL & MATERIAL TESTING LABORATORIES

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Why Alliance Technologies?

When you require expertise in chemical analysis of finished goods, ingredients, or raw materials, you need a lab with:

- Experience in analytical chemistry and industrial testing
- Quality Systems as per 21 CFR 210/211
- FDA registration and DEA license (C I-V)
- Problem-solving scientists and consultants

Chemical Analysis and Materials Characterization Lab

Since 2001, Alliance Technologies has provided expert analysis and testing for a wide variety of industries and clients. Whether testing for active ingredients or contaminants, Alliance Technologies' mission is to apply our knowledge of chemistry to solving product and manufacturing problems. With expertise in chemical analyses, we strive to provide accurate and reliable data to offer insight into resolving your challenging questions.

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Cosmetics & Personal Care



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Manufacturing Process Analysis



Litigation Support



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