

Customized High-Resolution
LC/MS and GC/MS Solutions



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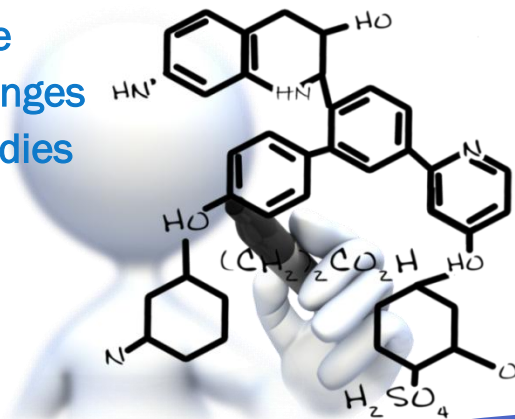
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What Makes



Unique

- Team of Ph.D. Specialists
- Qualitative and Quantitative Small/Large Molecule Expertise
- Committed to Finding Solutions for Difficult Chemical Challenges
- “Go-To” Comprehensive Analytical Resource for ISO E&L Studies



State of the Art Hardware



- Waters UPLC/MS/MS (QToF)
- Agilent GC-MS
- Waters GC/MS/MS (APGC)
- Agilent ICP-MS
- Agilent Headspace-GC/MS
- Agilent GPC (MW Distribution)
- Shimadzu TOC
- Hitachi SEM/Thermo EDX
- Instron Mechanical Tester
- FTIR Spectroscopy
- UV/VIS Spectrophotometry



Analytical Chemistry Services



- Software Supported Accurate Mass-MS/MS Structural Elucidation
- High Sensitivity MS
- GC/MS/MS and UPLC/MS/MS
- Tandem UPLC-UV or Fluorescence Detection + MS or MS/MS
- Direct Injection MS and MS/MS
- NIST 23 Mass Spec Library for Volatiles/Semi-Volatiles
- Residual Solvents by HS-GC/MS
- Heavy Metals by Acid Digestion + ICP-MS

Studies – Chemical Analysis



- Detection, Characterization, & Quantitation, Small, and Large Molecules
- ISO Extractables & Leachables (E&L)
- Packaging Additive Screening
- Raw Materials Characterization, Purity, and Qualification
- Stability Studies
- Kinetic Studies (e.g., Nickel Elution, Drug Delivery)
- Process Validation / Process and Product Troubleshooting
- Complex Formulation Fingerprinting
- Equivalence and Difference Testing
- Methods Development and Validation
- Testing/Reporting for QA, QC, Regulatory Requests

Studies - Materials Analysis

- *In situ* Mechanical Testing (Instron Bio-Bath)
- Quality Assessment of Molded/Machined Parts, e.g., flash, roughness (SEM)
- Surface Contamination (SEM, EDX, Microscope-FTIR)
- Unknown Polymer Investigations (FTIR)
- Failure Analysis
- Corrosion Analysis
- Polymer Molecular Weight Distribution (GPC)
- Thermal Analysis (DSC, TGA)
- Stability Testing

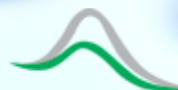
Satisfied Customers



Medtronic

BAUSCH + LOMB

See better. Live better.



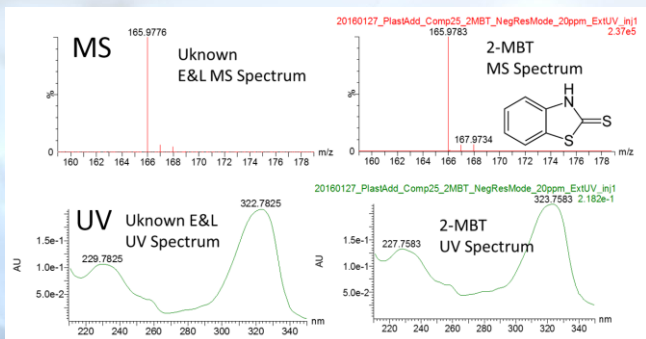
Advanced BioCatalytics Corporation

ILLUSTRIS PHARMACEUTICALS INC.

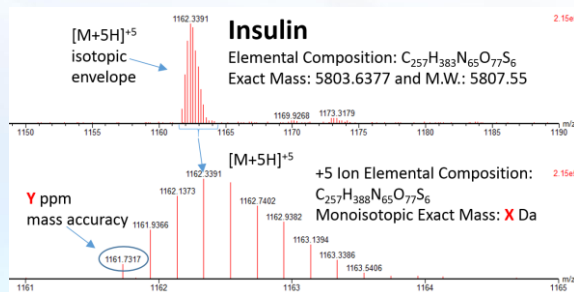


Analytical Case Studies Available Upon Request:

Case Study I: Small Molecule Impurity ID

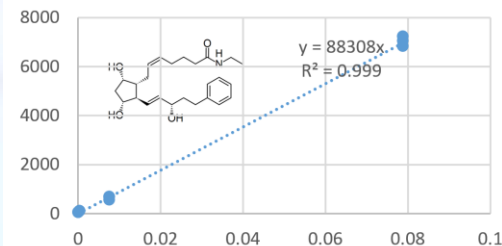


Case Study III: Peptide Structural Characterization



Case Study II: Small Molecule Quantitation

Bimatoprost Standard Concentration (ug/mL) vs Peak Area



Questions? More Information?



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