



Pharmaceutical Sciences

FACTSHEET



LC/MS and GC/MS

The Mass Spectrometry Group is capable of identifying unknowns and structure elucidation in support of API and drug products during all phases of drug development.

Experience and Services

- Experience with all pharmaceutical applications, from small molecules to biomolecules
- Highly skilled scientists with multiple years of hands-on mass spectrometry experience
- State-of-the-art instrumentation to provide solutions to your challenging problems

Capabilities

- LC/MS, LC/MS/MS and LC/MSⁿ
- GC/MS
- Quadrupole
- Electron Impact Ionization
- Triple quadrupole
- Chemical Ionization
- Ion trap
- LC/MS
- MSD
- Electrospray ionization (ESI)
- Time of flight (TOF)
- Atmospheric pressure chemical ionization (APCI)

Applications

- Small and Large Molecules
- Method development and validation
- Impurity and Degradation Identification
 - Structural elucidation of unknowns
 - Identification of Impurities (synthesis intermediates, by-products, degradants, etc) in APIs and drug products in accordance with ICH guidelines

- Lot comparisons
- Reference standard structural characterization and accurate mass determination
- Synthesis support
- Quantitative analysis
- Stability studies
- Biomolecules
- Protein and Peptide structural characterization
 - Peptide mapping
 - Peptide sequencing
 - Protein characterization
 - Degradation pathways, disulfide bond, post translational modifications
 - Glycosylated Peptide analysis
- Oligonucleotide ID and impurity profile

Additional Aptuit Capabilities

Aptuit offers a comprehensive suite of drug development services that range from candidate selection through to market, including consultancy services, API development and manufacture, preclinical and clinical technologies, pharmaceutical services, large and small scale manufacturing, IVRS, and clinical packaging and logistics, across a wide range of compounds, dosage forms and delivery systems.

For information about Aptuit's services, please call or email:

+1 816 767 3900 North America

+44 131 451 2451 Europe

email: info@aptuit.com

or visit our website: www.aptuit.com

Engineering a better drug development process.