

# Mass Spectrometric Capabilities

Lancaster Laboratories offers comprehensive expertise in the support of qualitative and quantitative mass spectrometric analyses. With an increasing trend in pharmaceutical applications, mass spectrometric detection is an extremely powerful analytical tool since it can provide valuable structural information with a high degree of specificity. Our experienced analysts hold decades of experience in chromatography and mass spectrometric techniques.

## Specific examples of our analytical services include:

- Residuals by LC/MS/MS and GC/MS.
- Extractables by GC/MS.
- Forced Degradation Product Identification by LC/MS.
- Leachable Metals by ICP/MS.
- Impurity Identification by LC/MS and GC/MS.
- Residual Solvents by Headspace GC/MS.
- Nitrosamines by LC/MS/MS.

Lancaster Laboratories has the following equipment dedicated to method development, method validation, and identification of unknowns:

- Perkin Elmer ELAN® 9000 ICP-MS.
- Waters LC/MS/MS.
- Agilent LC/MSD TOF.
- Agilent GC/MSD.
- Agilent LC/MSD Ion Trap.
- Applied Biosystems MALDI-TOF.
- Thermo Scientific LTQ-XL Orbitrap LC/MS.

For more information on our mass spectrometric capabilities please contact your project manager or Pharmaceutical Business Development at 717-656-2300.



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