

Applied Biosystems/MDS SCIEX QTRAP LC/MS/MS System



TIPLab has two linear ion trap/triple quadrupole mass spectrometers manufactured by AB/MDS SCIEX, the QTRAP and the top-of-the-line model 4000 QTRAP. These mass spectrometers have all the functions of both ion traps and triple quadrupoles. The QTRAP and the 4000 QTRAP are ideal platforms to perform quantitative analysis using multiple ion reaction monitoring (MRM) technique. The following applications are recommended for QTRAP and 4000 QTRAP system:

1. MRM/MIDAS workflow-based quantification: for verification of putative biomarkers.
2. MRM based quantification: for absolute quantification of small molecules such as pharmaceutical products and their metabolites.
3. Precursor ion scan-based metabolite identification.
4. Precursor ion scan/ neutral loss scan-based PTM (phosphorylation and glycosylation) analysis.
5. Protein Identification: enzymatically-digested protein identification utilizing database search engines.