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## ***Applied Biosystems Sciex API 100 LC/MS***

***Reliable biomolecular characterization in one complete package.***

### **MS Designed for the Life Scientist**

The API 100 LC/MS system provides easy complete protein and peptide characterization in a single package. Perkin Elmer's Applied Biosystems Division and PE SCIEX have teamed up to create a high performance LC/MS system especially for life scientists.

With the API 100, you are backed by Applied Biosystems' understanding of protein analysis, along with the complete line of products for protein/peptide characterization. And you benefit from PE SCIEX's reputation and expertise in LC/MS. The API 100B LC/MS system will complement your laboratory's present techniques and will provide important information that only mass analysis can.

### **DATA FOR A HOST OF APPLICATIONS**

- Characterization of protein and peptide structures including glycosylation, phosphorylation and sequence
- Protein identification using database searches
- Verification of sample homogeneity prior to Edman sequence analysis
- Identification of post-translational modifications
- Monitoring of digestion or chemical cleavage experiments
- Confirmation of Edman sequencing results
- Characterization of synthetic samples
- Verification of post-synthesis modifications
- Accurate molecular weights of intact proteins and peptides

### **Integrated LC/MS, Easy to Use**

Everything is here for you. Install the API 100 and begin to determine protein and peptide molecular weight and structural data immediately. The API 100 is completely integrated and configured for the characterization of proteins and peptides. The system includes these proven and reliable components:

- **API 100 LC/MS with CID/MS technology.** This rugged benchtop single-quadrupole instrument has a simple Atmospheric Pressure Ionization (API)

interface well suited for biomolecular analysis. Collisionally Induced Dissociation (CID/MS) technology enables the identification and characterization of protein and peptide structures.

- **Model 140C Microbore HPLC.** Optimized for microbore (1.00 mm i.d. column) applications this HPLC's pulse-free syringe pump technology is ideal for high sensitivity LC/MS analyses.
- **Model 785 UV/VIS Detector.** This detector's low-noise, no-drift performance and high usable sensitivity range (0.001 2 AUFS) help ensure ultra-sensitive detection. Acquiring both absorbance and mass data simultaneously allows you to see your data in a familiar, easy-to-interpret format.

### **Easy to Use and Designed to Grow with You**

The API 100 has been designed for the mass analysis of the life science researcher. Complete control of system parameters (infusion pump, LC, MS, and automated data analysis) makes operation a snap to learn. To help you get started, the instrument has two modes of operation. In the non-expert mode, instrument parameters are linked, simplifying instrument optimization. As your expertise grows, independent adjustment of all instrument parameters is available in the "expert mode" for advanced applications.

### **Rugged, Reliable API Interface**

The API 100 includes the IonSpray interface, the optimal atmospheric pressure ionization interface for analysis of biomolecules. Ionization is achieved without heat, so thermally labile biomolecules and non-covalent complexes will not degrade. Once optimized, the interface will maintain its performance over a broad range of samples and matrices making the IonSpray extremely user friendly.

### **What You Get: Accurate MW and Structural Data**

The proof is in the data. The API 100 provides accurate molecular weights and structural information in an easy-to-use integrated LC/MS system, something other techniques cannot match.



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