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API 5000™ LC/MS/MS System

The API 5000™ LC/MS/MS System is today's most sensitive triple quadrupole mass spectrometer for small molecule analysis.

- Highest sensitivity triple quadrupole mass spectrometer for small molecule analysis.
- Lowest limits of detection available for DMPK and ADMET studies.
- Robust, high-throughput platform for all stages of pharmaceutical development.
- Unequaled accuracy and precision for quantitative analysis.

Reach the Lowest Limit of Detection

New innovations in sensitivity like QJet™ ion guide technology make it possible to reach the lowest limits of detection. Combining QJet ion guide technology with the proven TURBO V™ ion source and a powerful new generation of Analyst® software results in a robust, high throughput platform ideal for all phases of pharmaceutical development.

Eliminate Cross-Contamination

Innovative QJet ion guide technology dramatically improves sensitivity by capturing and focusing more ions generated by the efficient TURBO V ion source. And the TURBO V source virtually eliminates cross-contamination, even with high-concentration samples.

Flexible Options Increase Throughput

The optional DuoSpray™ source provides an ideal tool for faster method development and increased throughput. This source has both TurboIonSpray® ion source and APCI inlets allowing optimal computer-controlled ionization parameters for each compound in an LC run. Another option, the PhotoSpray® source for atmospheric pressure photoionization increases your analysis possibilities.

Unattended High Throughput Operation

The API 5000™ system continues the tradition of Applied Biosystems/MDS Sciex rugged, reliable triple quadrupole systems. Advanced automation features enable continuous duty operation in regulated high throughput laboratories.

Expert Results - Even for Non-Experts

The API 5000™ system makes it easy for you to get you the answers you need - even if you're just getting into mass spectrometry. From automated methods development to quick, simple routine maintenance, it is not only the most powerful triple quad available, it's the easiest to use too.

System Set-Up Specifications

Gas Supplies Gas Supplies: 100 psi high purity nitrogen, 100 psi zero grade air

Performance/Throughput

Mass Accuracy (with internal reference)	0.01% over the entire mass range
Gas 1/Gas 2	Gas Supplies: 100 psi high purity nitrogen, 100 psi zero grade air
Dynamic Range	1 cps to 4×10^6 cps (pulse counting)
Mass Range	m/z 5 – 1250

Physical Specifications

Width 130 cm (53 in)
Depth 50 cm (20 in)
Weight 141 kg (310.8 lb)
Height 52 cm (21.5 in)

Computer Requirements (PC)

Operating System	Windows 2000/XP
CD-ROM	CVC RW (CD RW capable)
Memory	1 GB RAM
CPU	3.2 GHz
Hard Disk	200GB
Display	19" Viewable Color monitor recommended

Power Requirements

Voltage	2 separate 207 V minimum to 242 V maximum (3 plug receptacles minimum)
Circuit Current	15 A grounded single phase circuit



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