



Agilent 6230B Accurate-Mass TOF LC/MS

Data Sheet



The Agilent 6230 Accurate-Mass TOF LC/MS achieves sensitivity, mass accuracy, mass resolution, and scan speed specifications after autotune without manual user intervention.

Parameter	Measure	Specification
MS sensitivity with AJS	1 pg reserpine injected on-column Measured at m/z 609.2807	Signal-to-noise ratio > 50:1 Noise = 1 \times RMS
MS sensitivity with ESI (Option 200)	1 pg reserpine injected on-column Measured at m/z 609.2807	Signal-to-noise ratio > 10:1 Noise = 1 \times RMS
Mass resolving power	Measured at m/z 1,522 after automatic tuning procedure	22,000 FWHM
Mass accuracy—MS mode	Measured at m/z 609.2807 using an internal reference mass	< 1 ppm
Spectral acquisition rate, MS mode	Spectra acquisition from m/z 100 to 3,200	30 spectra/second
Dynamic range	In-scan dynamic range on co-eluting components	Up to 5 decades
Mass range		m/z 25 to 20,000
Polarity switching	Pos/neg switching	< 1 sec
Mass accuracy temperature stability—MS mode	Temperature: 15 to 35 °C (59 to 95 °F) at constant temperature while setting autotune at 25 °C	Maintain 2 ppm mass accuracy within 2 °C drift per hour



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General system specifications

Parameter	Measure
Single point of control	Single point data system method capability with full control for HPLC system and TOF and communication between the two such that if the LC or MS experiences a not ready condition, error, or leak, the system stops injecting the sample.
Wide range of ionization sources	<ul style="list-style-type: none"> • Electrospray (ESI) • Atmospheric pressure chemical ionization (APCI) • Atmospheric pressure photoionization (APPI) • Multimode source (simultaneous ESI and APCI) • HPLC-Chip/MS interface • AP/MALDI PDF + source based upon pulsed dynamic focusing
Transparent introduction of reference masses	<ul style="list-style-type: none"> • Dual-sprayer orthogonal ESI source, with one sprayer for analytical flow and one for the reference compound • Built-in calibrant delivery system for automated introduction of reference masses • Real-time internal reference mass correction for MS operation • Internal reference mass correction for heated sources—multimode, APCI, APPI
Autotune	Automated optimization of ion optics and full TOF MS mass axis calibration
Data mining tools	One-button extraction of compound-specific spectral and chromatographic information using Find Compounds algorithms
Linked software to enable quick manual review of complex data sets	Compound-based data browsing with dynamic links to spectra and chromatograms
Software for protein identification	Full compatibility with optional Spectrum Mill for MassHunter Workstation, including optimized Data Extractor
Software for verification of recombinant software proteins or synthetic peptides	BioConfirm
Software for walk up compound analysis	Easy Access software
Molecular profiling tools	<ul style="list-style-type: none"> • Measurement of potentially relevant molecular features from one or more LC/MS analyses (MassHunter) • Differential expression analysis to reveal features that separate one sample set from another (optional MassHunter Mass Profiler)
Warranty	First year expanded warranty to include all labor, parts, and travel expenses. Includes preventive maintenance and certain consumables
Safety	<ul style="list-style-type: none"> • Canadian Standards Association ^CAN/CSA-C22-2 No. 61010-01-4 • ^CSA/Nationally Recognized Test Laboratory (NRTL) UL 61010-1:2005 • International Electrotechnical Commission (IEC) 61010-1 • EuroNorm (EN): 61010-1
Electromagnetic compatibility	CISPR11/EN55011: Group 1, Class A
Sound emission	EN 27779:1991 – sound pressure Lp < 70 db
Power	<ul style="list-style-type: none"> • Americas and Japan: 200 to 220 VAC; 2500 VA max, 50/60 Hz, 15 A circuit • Europe and Asia Pacific: 220 to 240 VAC; 2500 VA max, 50 Hz, 15 A circuit
Operating environment	Humidity: 20 to 85 %
Size	83 cm long × 73 cm wide × 133 cm high
Weight	260 pounds

Ordering Information

Part number	Product description
G6230BA	6230B Accurate Mass TOF LC/MS System*

* Includes the 6230B Accurate-Mass TOF LC/MS System with AJS (Agilent Jet Stream Technology), MassHunter Software, a PC, a monitor and printer, and service installation of the system.

The above are not standard installation specifications. Performance specifications in this document are reviewed for accuracy, but they do not represent the tests and procedures performed at installation, which are described in the Agilent 6230 Time-of-Flight LC/MS System Installation Guide, document G3335-90064 or subsequent version number. See Site Preparation Guide and Service Notes for additional product and specification information.

www.agilent.com/chem/tof

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