



Agilent 6120B Single Quadrupole LC/MS System

Data Sheet



The 6120B Single Quadrupole LC/MS achieves sensitivity and resolution specifications with autotune.

Parameter	Measure	Specification
Maximum scan speed	Da/sec	10,400 Da/sec
SIM sensitivity, ESI positive	1 pg of reserpine injected on column, quantifying the m/z 609 ion	Signal-to-noise ratio > 75:1
SIM sensitivity, APCI positive	1 pg of reserpine injected on column, quantifying the m/z 609 ion	Signal-to-noise ratio > 10:1
Polarity switching	Switching time from positive to negative polarity	30 msec with upgrade
Mass resolution (Autotune)	Full width at half maximum	Unit resolution
Mass stability	Over 12 hours	< 0.1 amu or 100 ppm, whichever is larger
Mass accuracy		± 0.13 Da
Minimum SIM dwell time		5 msec
Maximum SIM transitions	One time segment	100
Dynamic range		> 6×10^6
Mass range		2–2,000 m/z



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General system specifications

Parameter	Specification
Single point of control	Single-point data system method capability with full control of Agilent 1200 Series LC Systems and 6100 Series Single Quadrupole LC/MS Systems
Time programming	<ul style="list-style-type: none">• SIM ion selection• Scan functions• Fragmentor voltage• External CAN valves
Wide range of ionization sources	<ul style="list-style-type: none">• Electrospray (ESI)• Multimode source (simultaneous ESI and APCI)• Atmospheric pressure chemical ionization (APCI)• ChipCube for integrated nanoLC• Atmospheric pressure photoionization (APPI)
Detector	High energy conversion dynode and high gain electron multiplier horn
Vacuum System	One turbo-molecular pump with one mechanical pump

Ordering information

G6120BA: 6120B Single Quadrupole LC/MS System

Includes Agilent G6120B single quadrupole mass spectrometer, G1948B electrospray ion source, Agilent OpenLab ChemStation edition software, and data system with PC, display, and printer. System installation and familiarization include.

G2735M: Fast Polarity Switching Upgrade for the 6120B Single Quadrupole LC/MS System

The above are not standard installation specifications for the 6120 Single Quadrupole. 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 6100 Series Single Quadrupole LC/MS System Installation Manual, document G1960-90071 or subsequent version number. See Site Preparation Guide and Service Notes for additional product and specification information.

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