



Agilent 6410 Triple Quadrupole LC/MS

Data Sheet



The 6410 Triple Quadrupole LC/MS achieves sensitivity and resolution specifications after autotune without manual user intervention.

Parameter	Measure	Specification
MS/MS sensitivity and repeatability	0.5 pg of reserpine injected on column, ESI source, three concurrent MRM acquisitions, quantifying on the transition m/z 609 to 195.	Signal-to-noise ratio >20:1, where noise = 5x RMS
Mass resolution		Three settings (FWHM) Unit: 0.7 u; Wide: 1.2 u; Widest: 2.5 u
Mass accuracy		0.1 u across the mass range
Mass stability		<0.1 u in 24 h
Dynamic range		>6.5 × 10 ⁶
Mass range		m/z 15–1,650
Scan rate		5,200 u/sec
Scan modes		MS scan, MS/MS product ion scan, MRM, MS/MS neutral loss/gain scan and precursor ion scan, SIM
Minimum MRM dwell time		5 ms with 10 MRMs
MRM transitions		99 per time segment, thousands possible with multiple segments
Positive/negative polarity switching	Time segment dependent	Inter-segment delay of 1.5 sec
Collision cell		High-pressure, hexapole with linear acceleration
Cross-talk		None detectable



General System Specifications

Parameter	Measure
Single point of control	Single-point data system method capability with full control of Agilent 1100 and 1200 Series HPLC systems and 6410 Triple Quadrupole LC/MS
Time programming	<ul style="list-style-type: none">• Positive/negative polarity switching in a time segment• Scan and SIM or MRM (plus other modes of data collection)• Solvent divert through calibrant delivery system valve• Possible 99-time segments with potential 99 MRMs per-time window
Wide range of ionization sources	<ul style="list-style-type: none">• Electrospray (ESI)• Nanospray with HPLC-Chip Cube MS interface• Atmospheric pressure chemical ionization (APCI)• Multimode source (simultaneous ESI and APCI)
Autotune	Automated optimization of ion optics and mass axis calibration
Solvent declustering	Countercurrent gas
Detector	High-energy conversion dynode and removable electron multiplier horn
Vacuum system	One triple-stage turbomolecular pump with one mechanical pump
Warranty	First year expanded warranty to include all labor, parts, and travel expenses. Includes preventive maintenance and certain consumables.

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