



# Agilent 6490 Triple Quadrupole LC/MS with iFunnel Technology

## Data Sheet



**The Agilent 6490 Triple Quadrupole LC/MS achieves sensitivity and resolution specifications after autotune without manual user intervention**

Parameter	Measure	Specification
Electrospray ESI+ MS/MS sensitivity	1 pg of reserpine on the transition $m/z$ 609 to 195	Signal-to-noise ratio > 60,000:1
Electrospray ESI- MS/MS sensitivity	1 pg of chloramphenicol on the transition $m/z$ 321 to 152	Signal-to-noise ratio > 50,000:1
Mass Range ( $m/z$ )		5-1400 amu
Polarity switching		Switch from positive ion mode to negative ion mode in 20 ms
Mass resolution		0.4 amu
Mass accuracy		0.01% or 0.1 Da
Mass stability		< 0.1 u in 48 h
Dynamic range		> $6.0 \times 10^6$
Scan rate		12,500 Da/s
Scan modes		MS scan, MS/MS product ion scan, MRM, MS/MS neutral loss/gain scan and precursor ion scan, SIM, tMRM
Minimum MRM dwell time		1 ms
MRM transitions		500 per second, >40,000 MRMs possible in a method
Collision cell		High-pressure, hexapole with linear acceleration collision cell
Cross-talk		None detectable
Single point of control	Single-point data system method capability with full control of Agilent 1200 Series HPLC systems and 6490A Triple Quadrupole LC/MS System	
Time Programming	<ul style="list-style-type: none"> <li>● Polarity change in time segment</li> <li>● Continuous polarity change during entire method</li> <li>● Scan and SIM or MRM (plus other modes of data collection)</li> <li>● Dynamic MRM aligns MRMs with compound retention time</li> <li>● Solvent divert through calibrant delivery valve</li> </ul>	

Wide range of ionizations sources	<ul style="list-style-type: none"> <li>● Electrospray (ESI)</li> <li>● Multimode source (simultaneous ESI and APCI)</li> <li>● Atmospheric Pressure Chemical Ionization (APCI)</li> <li>● Nanospray with HPLC-Chip Cube MS interface</li> </ul>
Autotune	Automated optimization of ion optics and mass axis calibration with Agilent Jet stream Ion focusing technology
Solvent declustering	Agilent Jet Stream Ion Focusing Technology and Countercurrent gas
Detector	High-energy conversion dynode and high-gain electron multiplier horn
Vacuum system	Two turbomolecular pumps with two mechanical pump

## Ordering Information

Description	Product number
<b>LCMS Triple Quad HS Bundle</b> Includes the 6490 Triple Quadrupole Mass Spectrometer, MassHunter Workstation Software with both compliance and method optimization software, a PC, a monitor and printer, and service installation of the system.	<b>G6490</b>

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