

SCIEX Triple Quad™ 3500

System Specifications



The SCIEX Triple Quad 3500 System is a modernized, affordably-priced, bench top triple quadrupole mass spectrometer designed for LC-MS/MS analyses. This instrument provides the productivity, reliability, and robustness required for today's analytical laboratories. The powerful hardware offers ultimate performance on a budget for quantitation of hundreds of compounds in hundreds of samples - day after day, year after year.

SYSTEM SPECIFICATIONS

Sensitivity MRM mode - positive	Reserpine 1 pg on column	S/N > 30,000
Sensitivity MRM mode - negative	Chloramphenicol 1 pg on column	S/N > 30,000
Scan speed	12,000 Da/sec	
Polarity switching	50 msec, in MRM and <i>Scheduled</i> MRM™ (sMRM) modes	
Minimum MRM dwell time	1 msec	
MRM acquisition rate	500 MRM/sec	
Mass range (m/z)	5-2000	
Cross talk for Reserpine 609/195	No significant cross talk detectable with 2 msec dwell time and 3 msec inter-MRM pause time	
Mass stability	0.1 Da over 24 hours	
Scan types	Full scan MS and selected ion for both Q1 and Q3, product ion scan, precursor ion scan, neutral loss or gain scan, multiple reaction monitoring (MRM), <i>Scheduled</i> MRM (sMRM)	
Detector type	AcQuRate™ Pulse Counting CEM	
Dynamic range	5 orders of magnitude	
Ionization source	Turbo V™ source housing with TurbolonSpray® Probe or APCI probe (max temp: 750°C) Flow rate compatibility: 5 µL/min to 3 mL/min	
Built-in devices	High-precision syringe pump and switching valve	
StatusScope® compatible	Real time monitoring and alerts of critical instrument parameters	
Software	Analyst® Software 1.6.2 with components for 3500 instrument or later, contains technical controls for 21 CFR Part 11 compliance; includes <i>Scheduled</i> MRM™ Algorithm	

Disclaimer:

S/N measurements are calculated based on 1 standard deviation of at least 3 points of noise which produce the smallest standard deviation, after applying up to 3 Gaussian smooths. S/N ratio does not imply the limit of detection, LOD, or limit of quantitation, LOQ of the MS system, or any assay. The S/N ratio presented only applies to the concentrations specified and cannot be extrapolated to any other concentrations.

These specifications are not standard installation specifications for the SCIEX Triple Quad™ 3500 LC-MS/MS system. The Triple Quad 3500 system is tested and installed in accordance with standard performance tests as described in the SCIEX Triple Quad™ 3500 LC-MS/MS System Installation Checklist and Data Log (RUO-IDV-06-1420)

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