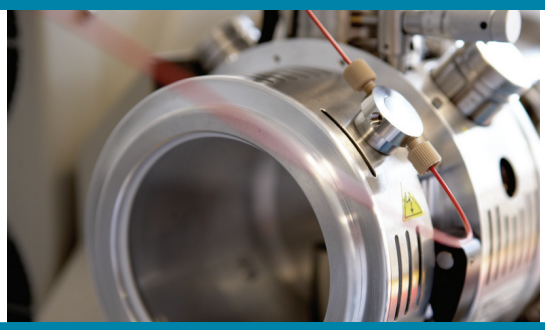


AB SCIEX QTRAP® 5500 LC/MS/MS System

System Specifications

The AB SCIEX QTRAP® 5500 System is a high sensitivity, bench top hybrid triple quadrupole-Linear Accelerator™ trap mass spectrometer designed for LC/MS/MS analyses. This instrument provides an uncompromised combination of Linear Accelerator trap and triple quadrupole functionality, uniquely allowing both qualitative and quantitative analyses to be carried out in a single experiment. New eQ™ electronics and the new Qurved LINAC® collision cell provide unmatched support for fast chromatography applications with thousands of analytes. The optional SelexION™ technology differential ion mobility device adds a new dimension of selectivity to LC/MS/MS analyses.

SYSTEM SPECIFICATIONS		
Sensitivity MRM mode	Reserpine 50 fg on column	S/N > 2000 C.V. < 5%
Triple quad scan speed	12,000 Da/sec	
Linear ion trap scan speed	20,000 Da/sec	
Polarity switching time	50 msec	
Minimum MRM Dwell Time	1 msec	
Triple quad mass range (m/z)	5-1250	
Linear ion trap mass range (m/z)	50-1000	
Cross talk for Reserpine 609/195	No significant cross talk detectable with 1 msec dwell time and 3 msec inter-MRM pause time	
Triple quadrupole 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), enhanced MS scan, enhanced product ion scan, enhanced resolution scan, MS^3 scan, MRM^3 scan, and TripleTrap™ scan modes	

SYSTEM SPECIFICATIONS (continued)			
TripleTrap™ scanning cycle time	1.5 seconds 100 MRM transitions followed by a precursor scan (500 Da) and a neutral loss scan (500 Da) followed by two EPI scans		
Resolution in LIT mode	**Scan Speed (Da/sec)**	**m/z 322**	**m/z 922**
	50	3200	9200
	250	1600	4600
	1000	1080	3100
	10000	540	1540
	20000	460	1320
Sensitivity EPI mode	Reserpine 500 fg on column 200 µL/min 150-650 Da at 10,000 Da/sec, sum of product ions 195 and 174		S/N > 500 C.V. < 5%
Sensitivity MRM^3 mode	Reserpine 500 fg on column 200 µL/min MRM^3 of 609.3/397/365 with 200 msec cycle time		S/N >30 C.V. < 5%
Detector type	AcQuRate™ Pulse Counting CEM		
Dynamic range	5 orders of magnitude		
Ionization sources	Turbo V™ source housing with TurboIonSpray® Probe or APCI Probe Maximum temperature: 750°C		
Flow rate compatibility	5 µL/min to 3 mL/min		
Optional sources	DuoSpray™ ion source (combination ESI/APCI) PhotoSpray® ion source NanoSpray® ion source		
Built-in devices	High-precision syringe pump and switching valve		
Optional built-in devices	SelexION™ technology differential ion mobility spectrometry device.		
Smart monitor	Real time monitoring of critical instrument parameters		
Software	Analyst® 1.5 software or later enabling CFR 21 part 11 compliance; includes *Scheduled* MRM™ Algorithm		

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Headquarters
110 Marsh Drive | Foster City CA 94404 USA
Phone 650-627-2600
www.absciex.com

International Sales
For our office locations please call the division headquarters or refer to our website at
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