



Microsaic
Systems

Microsaic MiD ProteinID[®]

Verify target proteins in bioprocessing

Technical specifications

Ion source	spraychip [®] - electrospray ionization source
Ionization modes	Positive and negative ESI
Flow rate range	0.3-2000 μ L/min
Mass analyzer	ionchip [®] - quadrupole mass filter
Interface	vac-chip [™] - off axis microengineered atmospheric pressure interface
Dynamic range	3-4 orders of magnitude
Scan modes	Full scan, SIM, simultaneous scan/SIM, and timed SIM
Scan rate	7,500 pt s ⁻¹
Pumping system	Integrated oil-free pumps (no floor pump needed)
Computer	Built-in PC
Software control	Masscape [®] , Remote Operations Protocol
Nitrogen gas requirements	2.5L/min, 99.5% purity, 2-6 bar (29-87 psi) pressure
Dimensions	55 x 35 x 25 cm (22 x 14 x 10 in.) (includin_ PC, pump and exhaust)
Weight	32 k_ (includin_ PC, pump and exhaust)

Low mass mode

Mass range	50-800 m/z
Mass accuracy	± 0.3 m/z in full scan*
Mass resolution	0.7 m/z \pm FWHM*
Sensitivity	30pg of reserpine yields a peak in SIM mode with a S/N ratio of 10:1 (RMS)

High mass mode

Mass range	50-3200 m/z
Mass accuracy	$\sim 0.1\%$ of IgG mass*
Sensitivity	IgG ~ 0.1 mg/ml

*in a temperature controlled environment, 20 \pm 3 $^{\circ}$ C



THE
INNOVATION
AWARDS
2018
Analytical Scientist