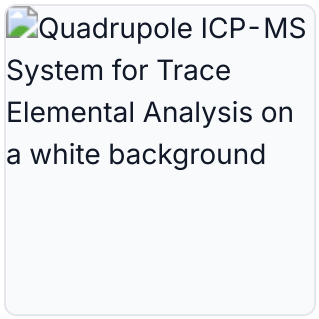
DATASHEET · ANALYTICAL INSTRUMENTS

Quadrupole ICP-MS System for Trace Elemental Analysis.

SKU CS-ANL-00020 **Spec** v1 **Rev.** 2026-07-08



VERIFIED

Spec v1 · 2026-07-08

PRODUCT SPECIFICATIONS

FROM PUBLISHED PRODUCT DATA

STANDBY RF POWER	500W	STANDBY ARGON CONSUMPTION	5 L/min
SAMPLE-INTRODUCTION REFRIGERATION TEMPERATURE	<-15	MATRIX AFTER ONLINE GAS DILUTION	less than 0.3%
DIRECT DETERMINATION AFTER ARGON DILUTION	>10% salt content	MASS RESOLUTION ADJUSTMENT RANGE	0.3-2.0amu
LINEAR DYNAMIC RANGE	greater than 9 orders of magnitude	BACKGROUND AT 5 AMU	below 0.5 cps
SHORT-TERM STABILITY	20 min stability RSD <2%	LONG-TERM STABILITY	2-hour stability RSD <3%
SENSITIVITY	Li above 20 Mcps / ppm; In above 180 Mcps / ppm; U above 200 Mcps / ppm	DOUBLY CHARGED AND OXIDE IONS	Ce++/Ce+ below 3%; CeO+/Ce+ less than 3%
DETECTION LIMITS	Li lower than 2ppt; In lower than 0.1ppt; U lower than 0.1ppt	ABUNDANCE SENSITIVITY	Low mass end: 1 × 10-6; high mass end: 5 × 10-7
MASS-AXIS STABILITY	<0.05 amu / 24h	ISOTOPE-RATIO ACCURACY	<0.2% (107Ag/109Ag)
DETECTOR	Pulse/Analog Dual-Mode Electron Multiplier	RF POWER SUPPLY	Self-Excited All Solid-State RF Power Supply

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PRODUCT SPECIFICATIONS, CONTINUED

FROM PUBLISHED PRODUCT DATA

RF POWER SUPPLY FREQUENCY	27.12MHz	RF POWER	700 ~ 1600W
RF POWER STABILITY	≤0.1%	RF FREQUENCY STABILITY	≤0.01%
MASS RANGE	2~260amu	RESOLUTION	0.8amu
RSD	< 3%(2h)	ARGON CONSUMPTION	12 ~ 15L/min(during normal analysis)
POWER CONSUMPTION	≤3.5kW	MONITORED ELEMENTS	Inorganic elements in liquid samples, including Li, Be, Na, Mg, Al, P, K, Ca, V, Cr, Mn, Fe, Co, Ni, Zn, As, Se, Rb, Sr, Cd, Sn, Te, Cs, Hg, Mo, Sb, Ba, Pb, Bi.
AVAILABILITY	On back-order		

CONTINUOUSLY VERIFIED · SPEC V1

Specifications verified against current published product data. **Verified 2026-07-08 · Since 2026-07-08.**

Cite: ConductScience CS-ANL-00020, Spec v1, 2026-07-08. conductscience.com/lab/quadrupole-icp-ms-trace-elemental-analysis