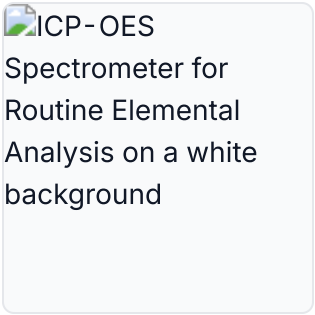
DATASHEET · ANALYTICAL INSTRUMENTS

ICP-OES Spectrometer for Routine Elemental Analysis.

SKU CS-ANL-00011 **Spec** v1 **Rev.** 2026-07-08


ICP-OES Spectrometer for Routine Elemental Analysis on a white background

VERIFIED

Spec v1 · 2026-07-08

PRODUCT SPECIFICATIONS

FROM PUBLISHED PRODUCT DATA

PERISTALTIC PUMP	12-roller 4-passage; 0 rpm to 125 rpm	GAS-CONTROL CAPACITY	up to five circuits
GAS-FLOW CONTROL ACCURACY	0.01 L/min	ONLINE ARGON DILUTION	samples with salinity higher than 10%
DETECTOR COOLING	3-stage TEC; as low as -45	DETECTOR STARTUP TIME	shorter than 3 minutes
OPTICAL-CHAMBER TEMPERATURE	36 ±0.1	OPTICAL-SYSTEM FOCAL LENGTH	380 mm
WAVELENGTH RANGE	165-870 nm	STRAY LIGHT	≤2.0 mg/L (10,000 mg/L Ca solution at As 188.980 nm)
OPTICAL RESOLUTION (FWHM)	≤7 pm @200 nm	PLASMA OBSERVATION	Bidirectional horizontal observation
RF FREQUENCY	27.12 MHz	RF COUPLING EFFICIENCY	higher than 80%
RF POWER STABILITY	≤0.1%	RF FREQUENCY STABILITY	≤0.01%
RF POWER	700-1,350W, continuous and adjustable, up to 1,600 W	ANALYSIS SPEED	about 200 spectral lines each minute
SAMPLE CONSUMPTION	2 ml	SPECTRAL LINEAR DYNAMIC RANGE	$\geq 10^5$

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PRODUCT SPECIFICATIONS, CONTINUED

FROM PUBLISHED PRODUCT DATA

PRECISION	RSD ≤0.5% after ten measurements of 1 ppm or 10 ppm multi-element standard	STABILITY	2-hour RSD ≤1%; 4-hour RSD ≤2%
DETECTION LIMITS	Zn 0.5; Ni 1; Mn 0.5; Cr 1; Cu 1; Ba 0.1 ug/L	PREHEATING TIME	shorter than 20 minutes
COOLING-WATER TEMPERATURE RANGE	5 -35	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-00011, Spec v1, 2026-07-08. conductscience.com/lab/icp-oes-spectrometer-routine-elemental-analysis