

# Product Specification

## Spike Solution

**Lot Number:** SAMPLE

**Product Number:** RCELSPIK

**Manufacture Date:** N/A

**Expiration Date:** N/A

**Matrix:** 2% Nitric Acid / 0.05% HCl

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Nitric Acid	7697-37-2	Trace Metals
Hydrochloric Acid	7647-01-0	Trace Metals

Test	Specification	Result
Appearance	Colorless to slightly colored liquid	N/A

Analyte	Analysis (ppm)	Solute	CAS#	Grade	NIST SRM#
Aluminum (Al)	297.0-303.0 ppm	Aluminum Nitrate Nonahydrate	7784-27-2	High Purity	3101
Iron (Fe)	99-101 ppm	Iron	7439-89-6	High Purity	3126
Chromium (Cr)	9.9-10.1 ppm	Chromium Nitrate Nonahydrate	7789-02-8	High Purity	3112
Zinc (Zn)	9.9-10.1 ppm	Zinc	7440-66-6	High Purity	3168
Copper (Cu)	9.9-10.1 ppm	Copper	7440-50-8	High Purity	3114
Nickel (Ni)	9.9-10.1 ppm	Nickel	7440-02-0	High Purity	3136
Selenium (Se)	4.95-5.05 ppm	Selenium	7782-49-2	High Purity	3149

This standard is guaranteed to be stable and accurate provided the product is kept tightly capped and stored under normal laboratory conditions. Balances are calibrated using NIST traceable weights whose verification of maintenance and recalibration is documented per in-house Standard Operating Procedures. Class A glassware is also calibrated and routinely rechecked per in-house Standard Operating Procedures. Trace metal analyzed acids and Trace Metals Analyzed Water are used in the manufacture of this product. Triple cleaned containers are used in the manufacture of this product.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
RCELSPIK-500N	500 mL natural poly	12 months

**Recommended Storage:** 15°C - 30°C (59°F - 86°F)

This document is designed to comply with ISO Guide 31 "Reference Materials -- Contents of Certificates and Labels."

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