

# Product Specification

## Trace Metals III Standard, for Water

**Lot Number:** SAMPLE**Product Number:** RTRACE3**Manufacture Date:** N/A**Expiration Date:** N/A

This is a multielement solution that was prepared volumetrically to contain the elements and concentrations stated below. The uncertainty associated with the certified values is  $\pm 0.5\%$  relative. The concentrations are confirmed by ICP or ICP-MS.

**Matrix:** 5% Nitric Acid

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Nitric Acid	7697-37-2	Trace Metals
Hydrofluoric Acid	7664-39-3	Trace Metals

Test	Specification	Result
Appearance	Colorless liquid	N/A

Analyte	Analysis (ppm)	Solute	CAS#	Grade	NIST SRM#
Calcium (Ca)	497-503 ppm	Calcium Carbonate	471-34-1	High Purity	3109
Sodium (Na)	497-503 ppm	Sodium Carbonate	497-19-8	High Purity	3152
Barium (Ba)	497-503 ppm	Barium Nitrate	10022-31-8	High Purity	3104
Molybdenum (Mo)	497-503 ppm	Molybdenum	7439-98-7	High Purity	3134
Potassium (K)	99.5-100.5 ppm	Potassium Carbonate	584-08-7	High Purity	3141
Magnesium (Mg)	99.5-100.5 ppm	Magnesium	7439-95-4	High Purity	3131

Specification	Reference
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Trace Metals III Std, for Water

EPA (200.7)

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
RTRACE3-100	100 mL natural LDPE	12 months

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

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