

Product Specification

Mixed ICP Standard, Low

Lot Number: SAMPLE

Product Number: PMX004N

Manufacture Date: N/A

Expiration Date: N/A

This is a multielement blend solution that was prepared volumetrically to contain the certified values reported. The uncertainty associated with the certified values is the sum of the estimated errors due to the purity of the raw material, the volumetric preparation of the solution, and transpiration of the solution through the container wall.

The final solution concentrations are confirmed by AA, 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

Analyte	Analysis (ppm)	Solute	CAS#	Grade	NIST SRM#
Calcium (Ca)	198-202 ppm	Calcium Carbonate	471-34-1	High Purity	3109
Phosphorus (P)	49.5-50.5 ppm	Ammonium Dihydrogen Phosphate	7722-76-1	High Purity	3139
Magnesium (Mg)	99-101 ppm	Magnesium	7439-95-4	High Purity	3131
Potassium (K)	24.75-25.25 ppm	Potassium Carbonate	584-08-7	High Purity	3141
Manganese (Mn)	4.95-5.05 ppm	Manganous Nitrate Tetrahydrate	15710-66-4	High Purity	3132
Zinc (Zn)	19.8-20.2 ppm	Zinc	7440-66-6	High Purity	3168
Iron (Fe)	9.9-10.1 ppm	Iron	7439-89-6	High Purity	3126
Copper (Cu)	3.96-4.04 ppm	Copper	7440-50-8	High Purity	3114

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)
PMX004N-500	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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