

Product Specification

Matrix Modifier, 2.0% Mg (20,000 ppm Mg)

Lot Number: SAMPLE

Product Number: MMMG20KN

Manufacture Date: N/A

Expiration Date: N/A

Magnesium concentration is certified traceable to NIST Standard Reference Material 3131a.

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Magnesium Nitrate Hexahydrate	13446-18-9	High Purity
Nitric Acid	7697-37-2	Trace Metals

Test	Specification	Result	NIST SRM#
Appearance	Colorless liquid	N/A	
Magnesium (Mg)	18000-22000 ppm	N/A	3131

Specification	Reference
Matrix Modifier, 2.0% Mg (20,000 ppm Mg) Mg(NO ₃) ₂ in 5% HNO ₃	EPA (200.9)

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)
MMMG20KN-100	100 mL natural LDPE	24 months
MMMG20KN-50	50 mL natural poly	24 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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