

Certificate of Analysis

Copper Standard, 5 ppm Cu in dil. HNO₃

Lot Number: 4404G12

Product Number: 2285

Manufacture Date: APR 10, 2024

Expiration Date: MAR 2025

This product was prepared volumetrically from a more concentrated solution that was titrated and is certified traceable to NIST Standard Reference Material 136. The certified value reported is the prepared value based upon the method of preparation of the material. The uncertainty in the prepared value is based upon the volumetric method of preparation.

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Nitric Acid	7697-37-2	ACS
Copper Sulfate Pentahydrate	7758-99-8	ACS

Test	Specification	Result	NIST SRM#
Appearance	Colorless to light blue liquid	Passed	
Copper (Cu)	4.97-5.03 ppm	5.00 ppm	3114

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)
2285-1	4 L natural poly	12 months
2285-1CT	4 L Cubitainer®	12 months

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



Paul Brandon (04/10/2024)

Production Manager

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

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