

Certificate of Analysis

Chromium Standard, 3 ppm Cr, in 3% HNO₃

Lot Number: 4312B46

Product Number: R2100030

Manufacture Date: DEC 01, 2023

Recommended Retest Date: NOV 2024

This is a single element solution that was prepared volumetrically to contain the certified value reported. The uncertainty associated with the certified value 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 concentration is confirmed by AA, ICP, or ICP-MS, and is traceable to NIST Standard Reference Material 3112.

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Nitric Acid	7697-37-2	Trace Metals
Chromium Nitrate Nonahydrate	7789-02-8	High Purity

Test	Specification	Result	NIST SRM#
Appearance	colorless to light blue liquid	Passed	
Chromium (Cr)	2.97-3.03	3.00 ppm	3112

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)
R2100030-500N	500 mL natural poly	12 months

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



Paul Brandon (12/01/2023)

Production Manager

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

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