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Certificate of Analysis

Hydrochloric Acid, 0.200 Normal (N/5) in Isopropyl Alcohol

Lot Number: 2404G18 Product Number: 3802

Manufacture Date: APR 16, 2024

Expiration Date: APR 2025

Name	CAS#	Grade	
Water	7732-18-5	ACS	
Hydrochloric Acid	7647-01-0	ACS	
Isopropyl Alcohol	67-63-0	ACS	

Test	Specification	Result	NIST SRM#
Appearance	Colorless liquid	Passed	
Assay (vs. Sodium Hydroxide/Phenolphthalein)	$0.1995 \text{-} 0.2005 \text{ N} \text{ at } 20^{\circ}\text{C}$	0.2001 N at 20°C	84

Specification	Reference
Hydrochloric Acid Solution, Standard Alcoholic (0.2 mol/L)	ASTM (D 664)
Hydrochloric Acid, Standard Alcoholic (0.2 M)	ASTM (D 974)
Hydrochloric Acid, Standard Alcoholic Solution (0.2 N)	ASTM (D 3242)

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)
3802-5	20 L Cubitainer®	12 months

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

Jose Pena (04/16/2024)

Operations Manager
This document is designed to comply with ISO Guide 31

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

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