

Certificate of Analysis

Hydrochloric Acid, 0.0200 Normal (N/50)

Lot Number: 2312G28

Product Number: 3595

Manufacture Date: DEC 27, 2023 Expiration Date: DEC 2025

The certified value for this product is confirmed in independent testing by a second qualified chemist.

Name	CAS#	Grade	
Water	7732-18-5	ACS/ASTM/USP/EP	
Hydrochloric Acid	7647-01-0	ACS	
Test	Specification	Result	NIST SRM#
Appearance	Colorless liquid	Passed	

Specification	Reference
Hydrochloric Acid, Standard (0.02 N)	ASTM (D 1067 A)
Hydrochloric Acid, Standard (0.02 N)	ASTM (D 1067 B)
Hydrochloric Acid, Standard (0.02 N)	ASTM (D 1067 C)
Standard hydrochloric acid, 0.02 N	APHA (2320 B)
Standard Hydrochloric Acid, 0.02 N	EPA (310.1)
Hydrochloric Acid, 0.02 N	APHA (3500-Zn D)

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)
3595-1	4 L natural poly	24 months
3595-1CT	4 L Cubitainer®	24 months
3595-32	1 L natural poly	24 months
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Recommended Storage: 15°C - 30°C (59°F - 86°F)

Jose Pena (12/27/2023) Operations Manager

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

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