## Certificate of Analysis

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

Lot Number: 2402H05 Product Number: 3802
Manufacture Date: FEB 27, 2024
Expiration Date: FEB 2025

| Name | CAS\# | Grade |  |
| :--- | :--- | :--- | :--- |
| Isopropyl Alcohol | $67-63-0$ |  | ACS |
| Water | $7732-18-5$ |  |  |
| Hydrochloric Acid |  | ACS |  |
| Test | Specification | Colorless liquid | ACS |
| Appearance |  |  | Result |


| Specification | Reference |
| :---: | :---: |
| Hydrochloric Acid Solution, Standard Alcoholic ( $0.2 \mathrm{~mol} / \mathrm{L}$ ) | ASTM (D 664) |
| Hydrochloric Acid, Standard Alcoholic (0.2 M) | ASTM (D974) |
| Hydrochloric Acid, Standard Alcoholic Solution (0.2 N) | ASTM (D 3242) |
| Volumetric glassware complies with Class A tolerance requirements of recalibrated regularly in accordance with ASTM E 542 and NIST Proc traceable to the NIST national mass standard. Thermometers and tem thermometer traceable to NIST standards. All products are prepared methods. Batch records document raw material traceability and produ | NIST Circular 434; it is calibrated before first use and 61. Balances are calibrated regularly with weights certified e calibrated before first use and recalibrated regularly with a documents that assure manufacture according to validated istory for each lot manufactured. |


| Part Number | Size / Package Type | Shelf Life (Unopened Container) |
| :--- | :--- | :--- |
| $3802-1$ | 4 L natural poly | 12 months |
| $3802-32$ | 1 L natural poly | 12 months |
| $3802-5$ | 20 L Cubitainer $\mathbb{B}$ |  |

Recommended Storage: $15^{\circ} \mathrm{C}-30^{\circ} \mathrm{C}\left(59^{\circ} \mathrm{F}-86^{\circ} \mathrm{F}\right)$

Jose Pena (02/27/2024)
Operations Manager
This document is designed to comply with ISO Guide 31 "Reference Materials -Contents of Certificates and Labels."

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