

Certificate of Analysis

Borate Buffer, pH 9.5, for Ammonia and Organic Nitrogen Analysis

Lot Number: 4402N02

Product Number: 1040

Manufacture Date: FEB 23, 2024

Expiration Date: AUG 2025

| Name | CAS# | Grade |
|--------------------------------|-----------|-----------------|
| Water | 7732-18-5 | ACS/ASTM/USP/EP |
| Sodium Tetraborate Decahydrate | 1303-96-4 | ACS |
| Sodium Hydroxide | 1310-73-2 | Reagent |

| Test | Specification | Result | NIST SRM# |
|---------------------------------------|------------------|--------|-------------------------------|
| Appearance | Colorless liquid | Passed | |
| pH at 25°C (Method: SQCP027, SQCP033) | 9.4-9.6 | 9.5 | 186-I-g, 186-II-g, 191d |

| Specification | Reference |
|------------------------|--------------------|
| Borate Buffer Solution | APHA (4500-Norg C) |
| Borate Buffer Solution | APHA (4500-NH3 B) |
| Borate Buffer Solution | APHA (4500-Norg B) |
| Borate Buffer | EPA (350.2) |
| Borate Buffer Solution | ASTM (D 1426 X1) |

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) |
|-------------|---------------------|---------------------------------|
| 1040-1 | 4 L natural poly | 18 months |
| 1040-1CT | 4 L Cubitainer® | 18 months |
| 1040-32 | 1 L natural poly | 18 months |

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



Paul Brandon (02/23/2024)

Production Manager

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

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