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## Certificate of Analysis

Total Ionic Strength Adjustment Buffer (TISAB II), with CDTA for Fluoride Analysis using Ion Selective Electrodes

Lot Number: 1401J69 Product Number: 8670

Manufacture Date: JAN 25, 2024

Expiration Date: JAN 2026

This solution provides a uniform ionic strength background, adjusts pH, and breaks up complexes with interfering polyvalent cations such as Aluminum (Al³) or Ferric (Fe³) Ions for Fluoride Samples and Fluoride Standards in this test method. An equal volume of this buffer solution (usually 25 to 50 milliliters) is added to either the Fluoride Samples or the Fluoride Standards (usually 25 to 50 milliliters) in this test method. RICCA CHEMICAL COMPANY Fluoride Standards, Cat. No. 3170 (10 ppm F), Cat. No. 3171 (100 ppm F), or Cat. No. 3173 (1,000 ppm F), may be used for calibration of the meter and electrode used in this test method.

| Name   | CAS#       | Grade           |
|--|------------|-----------------|
| Water  | 7732-18-5  | ACS/ASTM/USP/EP |
| Acetic Acid                                      | 64-19-7    | ACS             |
| Sodium Chloride                                  | 7647-14-5  | ACS             |
| Sodium Hydroxide                                 | 1310-73-2  | Reagent         |
| 1,2-Cyclohexylenediamine Tetraacetic Acid (CDTA) | 13291-61-7 | ACS             |

| Test                                  | Specification                             | Result | NIST SRM#                     |
|---------------------------------------|---|--------|-------------------------------|
| Appearance                            | Colorless liquid                          | Passed |                               |
| pH at 25°C (Method: SQCP027, SQCP033) | 5.30-5.50                                 | 5.33   | 185i,<br>186-I-g,<br>186-II-g |
| Suitability for Use                   | Suitability for use: Fluoride<br>analysis | Passed |                               |

| Specification                   | Reference           |
|---------------------------------|---------------------|
| Fluoride Buffer                 | APHA (4500-F- C)    |
| TISAB Solution                  | EPA (SW-846) (9214) |
| Buffer Solution, pH $5.0 - 5.5$ | EPA (340.2)         |

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) |
|-------------|---------------------|---------------------------------|
| 8670-1      | 4 L natural poly    | 24 months                       |
| 8670-2.5    | 10 L Cubitainer®    | 24 months                       |
| 8670-5      | 20 L Cubitainer®    | 24 months                       |

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

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Heidi J Green (01/25/2024)

Operations Manager

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

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