

# Certificate of Analysis

## Fluoride Standard, 2 ppm F<sup>-</sup> (Premixed with TISAB / Color Coded Red)

**Lot Number:** 1401G80

**Product Number:** 3163

**Manufacture Date:** JAN 18, 2024

**Expiration Date:** JAN 2025

The certified value reported is the prepared value based upon the method of preparation of the material. The uncertainty in the prepared value is based upon the volumetric method of preparation.

The concentration is confirmed by Fluoride ISE and is certified traceable to NIST SRM 2203.

Directions for Use: This standard is premixed with TISAB. Do not dilute or add TISAB to this standard. After calibrating with this standard, mix test samples for analysis with an equal volume of Total Ionic Strength Adjustment Buffer, RICCA Cat. No. 8670. Read Fluoride concentration directly (no dilution factor).

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
Red Dye	Proprietary	Purified
Sodium Fluoride	7681-49-4	High Purity

Test	Specification	Result
Appearance	Red liquid	Passed
Fluoride (F)	1.98-2.02 ppm	2.00 ppm

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)
3163-16	500 mL natural poly	12 months
3163-5	20 L Cubitainer®	12 months

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



Heidi J Green (01/18/2024)

Operations Manager

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

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