

800 Kaderly Dr Columbus, OH 43228 USA www.gfschemicals.com

Certificate of Analysis

Tel: 800.858.9682 · 740.881.5501 Fax: 740.881.5989

Product Name:	TISAB II, SOLUTION, FOR FLUORIDE
Item #:	2163
Lot #:	22250125





Cert. #: 3336.01

ISO 9001:2015 gistered by EAGLE Registrations Inc.

Certified Values:

Specifications	Status	Results
Suitability as buffer	Pass	Passes Test
рН (@ 25 C) 5.3 - 5.5 рН	Pass	5.4

Comments

Traceable to NIST SRM(s): 185i, 186lg & 186llg.

CoA #:	COA-088287	Best by:	June 20, 2026	
Certificate Created By:	Karen Hirsch	Print Date:	October 4, 2022	
CoA Creation Date:	July 12, 2022			
Certified by:	Melissa Murphy - Corporate Quality Assurance and Regulatory Compliance Manager			
	melisoa Murphy			

Not for direct use in food, cosmetics, finished pharmaceuticals or drug products. Supplier is not responsible for compliance with FDA Current Good Manufacturing Practices (cGMP), including without limitation for those finished drug products in 21 CFR Parts 210 and 211. Consult warranty limitations at www.gfschemicals.com

For resale by GFS authorized distributors only.



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Traceability:

This material was processed under a quality management system that is registered to ISO 9001:2015. The equipment used in the testing of material is NIST traceable. In cases where NIST traceability is not possible, equipment manufacturer recommendations and/or industry best practices are followed.

The following tests are performed under an A2LA accredited ISO/IEC 17025 management system:

- UV/VIS Spectrophotometer testing is performed according to ASTM method E169-16
- Turbidity according to ASTM methods D6855-17 and ASTM D7315-17
- Conductivity according to ASTM method D1125-14
- pH according to ASTM method D1293-18
- Karl Fischer titration according to ASTM methods DE203-16 and E1064-16

Samples for testing are obtained using GFS procedure GFSA-PROD-PPG-0022

Testing is performed in a laboratory temperature of $22 \degree +/- 2 \degree$ and/or a solution temperature of $25 \degree +/- 0.2 \degree$.

Karl Fischer testing is performed at a laboratory temperature of 25° C +/- 5° C and a relative humidity $\leq 60\%$.

Measurement Uncertainty:

The reported measurement uncertainty is an expanded measurement uncertainty according to the ASTM method E2554-18, calculated using 2 as the coverage factor (which gives a confidence level of approximately 95%).

- Example for a reported conductivity value of 2124 uS/cm: 2124uS/cm ± 0.65%, k=2
- Example for a reported pH value of 8.32: 8.32 \pm 0.01, k=2
- Karl Fischer for values between 0.1 to 10 mg/g o Example for a reported Karl Fischer value of 5.3 mg/g: 5.3mg/g ± 3.76%, k=2

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