

Certificate of Analysis

Buffer, Precision Reference Standard, pH 10.000 ± 0.005 at $25^{\circ}C$

Lot Number: 2307F98

Product Number: 1602

Manufacture Date: JUL 10, 2023 Expiration Date: DEC 2024

The certified value for this product is confirmed in independent testing by a second qualified chemist.

°C	0	5	10	15	20	25	30	35	40	50	
pН	10.305	10.233	10.167	10.107	10.051	10.000	9.954	9.911	9.873	9.808	

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Sodium Carbonate	497-19-8	ACS
Sodium Bicarbonate	144-55-8	ACS
Sodium Hydroxide	1310-73-2	Reagent
Preservative	Proprietary	
Blue Dye	Proprietary	

Test	Specification	Result	
Appearance	Blue liquid	Passed	*Not a certified value.
Test	Certified Value	Uncertainty	NIST SRM#
1650	Certifieu value	Uncertainty	NIST SRIVI#

pH measurements were performed in our Pocomoke City, MD laboratory under ISO/IEC 17025 accreditation (ANAB Certificate L2387.01) and are certified traceable to National Institute of Standards and Technology (NIST) Standard Reference Material as indicated above via an unbroken chain of comparisons. The uncertainty is calculated from the uncertainty of the measurement variation from sample to sample, the uncertainty in the NIST Standard Reference Material, and the uncertainty of the measurement process. The uncertainty is multiplied by k=2, corresponding to 95% coverage in a normal distribution. 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. 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)
1602-16	500 mL clear PET-G	18 months
D 110		

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

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Sharon Travers (07/10/2023) Operations Manager This document is designed to comply with ISO Guide 31 "Reference Materials --Contents of Certificates and Labels."

This product was tested in an ISO 17025 Accredited Laboratory

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