

# Product Specification

**Buffer, Precision Reference Standard, pH 10.000 ± 0.005 at 25°C**

**Lot Number:** SAMPLE

**Product Number:** 1602

**Manufacture Date:** N/A

**Expiration Date:** N/A

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
pH	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 Hydroxide	1310-73-2	Reagent
Sodium Bicarbonate	144-55-8	ACS
Preservative	Proprietary	
Blue Dye	Proprietary	

Test	Specification	Result	NIST SRM#
Appearance	Blue liquid	N/A	
pH at 25°C	9.995-10.005	N/A	186 & 191
pH at 25°C Uncertainty	0.03	N/A	

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)
1602-2.5	10 L Cubitainer®	9 months
1602-5	20 L Cubitainer®	9 months
R1602000-20F1	20 mL pouch	18 months
1602-20	20 x 20 mL pack	18 months
1602-16	500 mL clear PET-G	18 months

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



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Quality Control Manager

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



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