

# Product Specification

**Buffer, Precision Reference Standard, pH 4.000 ± 0.002 at 25°C (Color Coded Red)**

**Lot Number:** SAMPLE

**Product Number:** 1502

**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	45	50
pH	4.000	3.998	3.996	3.997	3.998	4.000	4.005	4.015	4.028	4.042	4.056

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Potassium Acid Phthalate	877-24-7	Buffer
Methyl Alcohol	67-56-1	ACS
Hydrochloric Acid	7647-01-0	ACS
Red Dye	Proprietary	Purified
Preservative	Proprietary	

Test	Specification	Result	NIST SRM#
Appearance	Red liquid	N/A	
pH at 25°C	3.998-4.002	N/A	185 & 186
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)
1502-2.5	10 L Cubitainer®	12 months
1502-5	20 L Cubitainer®	12 months
1502-16	500 mL clear PET-G	24 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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