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Manufacture Date: JUN 02, 2022

## Certificate of Analysis

Buffer, Reference Standard, pH 4.00 ± 0.01 at 25°C (Color Coded Red)

Lot Number: 1206716 Product Number: 1501 Expiration Date: MAY 2024

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

The NIST Traceable pH value is certified to ±0.01 at 25 °C only. All other pH values at their corresponding temperatures are accurate to ±0.05.

10 20 25 30 35 40 45 50 15 4.00 4.00 4.01 4.02 4.03 4.04 4.00 4.00 4.00 4.00 4.06 pН

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Potassium Acid Phthalate	877-24-7	Buffer
Preservative	Proprietary	Commercial
Red Dye	Proprietary	Purified

Test	Specification	Result	NIST SRM#
Appearance	Red liquid	Passed	
pH at 25°C (Method: SQCP027, SQCP033)	3.990-4.010	4.001	185i, 186-I-g, 186-II-g
pH at 25°C (Method: SQCP027, SQCP033) Uncertainty	0.02	0.02	

Specification	Reference
Commercial Buffer Solutions	ASTM (D 1293 B)
Buffer B	ASTM (D 5464)
Buffer B	ASTM (D 5128)

Arlington, TX laboratory ISO/IEC 17025 accreditation under traceable to National Institute of Standards and Technology (NIST) Standard Reference Material as indicated above measurement variation from comparisons. The uncertainty is calculated from the uncertainty of the sample to sample, the NIST Standard Reference Material, and the uncertainty of the measurement process. The uncertainty multiplied by k=2,

ASTM E 288 and NIST Circular Volumetric glassware complies Class it is calibrated tolerance requirements ASTM E 542 and NIST Procedure NBSIR 74-461. recalibrated regularly in accordance with Balances are calibrated regularly with weights certified standard. calibrated before a thermometer traceable to NIST standards. All products are prepared according to master documents that 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)
1501-16	500 mL natural poly	24 months
1501-32	1 L natural poly	24 months

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

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The

Jason Thomas (06/02/2022)

Operations Manager

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



Certificate # L2387 Testing

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