## RICCA CHEMICAL COMPANY®

## **Certificate of Analysis**

## Buffer, Reference Standard, pH $7.00 \pm 0.01$ at 25°C (Color Coded Yellow)

Lot Number: 2401G24

Product Number: 1551

Manufacture Date: JAN 17, 2024 Expiration Date: JAN 2026

The certified value for this product is confirmed in independent testing by a second qualified chemist. The NIST traceable pH value is certified to  $\pm 0.01$  at 25 °C only. All other pH values at their corresponding temperatures are accurate to  $\pm 0.05$ .

°C	0	<b>5</b>	10	15	20	25	30	35	40	45	50
$_{\rm pH}$	7.12	7.09	7.06	7.04	7.02	7.00	6.99	6.98	6.98	6.97	6.97

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Sodium Phosphate Dibasic	7558-79-4	ACS
Potassium Dihydrogen Phosphate	7778-77-0	ACS
Preservative	Proprietary	
Yellow Dye	Proprietary	
Sodium Hydroxide	1310-73-2	
Test	Specification	Result
Appearance	Yellow liquid	Passed *Not a certified valu
Test	Certified Value	Uncertainty NIST SRM#
pH at 25°C (Method: SQCP027, SQCP033)	7.007	0.02 186-I-g, 186-II-g, 191d

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

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 on 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)
1551-1	4 L natural poly	24 months

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

Jose Pena (01/17/2024) 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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