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Certificate of Analysis

Buffer, Reference Standard, pH 7.00 ± 0.01 at 25°C (Color Coded Yellow)

Lot Number: 4103L38 Product Number: 1551

Manufacture Date: APR 01, 2021

Expiration Date: MAR 2023

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 .

°C 0 5 10 15 20 25 30 35 40 45 50 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	Reagent

Test	Specification	\mathbf{Result}	NIST SRM#
Appearance	Yellow liquid	Passed	
pH at 25°C (Method: SQCP027, SQCP033)	6.990-7.010	7.005	186-I-g, 186-II-g, 191d
pH at 25°C (Method: SQCP027, SQCP033) Uncertainty	0.01	0.01	

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 Batesville, IN laboratory under ISO/IEC 17025 accreditation (ANAB Certificate L2387.02) 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 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)
1551-1	4 L natural poly	24 months
1551-16	500 mL natural poly	$24~\mathrm{months}$
1551-1CS	4 x 4 L natural poly	24 months
1551-1CT	4 L Cubitainer®	24 months
1551-32	1 L natural poly	24 months
1551-5	20 L Cubitainer®	24 months

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



Jon Russell (04/01/2021)

Quality Control Supervisor

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



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