RICCA CHEMICAL COMPANY®

Certificate of Analysis

Buffer, Reference Standard, pH 10.00 ± 0.01 at 25°C (Color Coded Blue)

Lot	Number:	1206A57
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Product Number: 1601

Manufacture Date: JUN 16, 2022 Expiration Date: DEC 2023

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

The NIST traceable pr	1 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	50	
pH	10.31	10.23	10.17	10.11	10.05	10.00	9.95	9.91	9.87	9.81	
Name						CA	S#			Grade	
Water						773	2-18-5			ACS/ASTM/USP/EP	
Sodium	Carbona	te				497	-19-8			ACS	
Sodium	Bicarbor	nate				144	-55-8			ACS	
Sodium	Hydroxi	de				131	0-73-2			Reagent	
Preserv	ative					Pro	prietary				
Blue Dy	7e					Pro	prietary				

Test	Specification	Result	NIST SRM#
Appearance	Blue liquid	Passed	
pH at 25°C(Method: SQCP027, SQCP033)	9.990-10.010	10.003	186-I-g, 186-II-g, 191d
pH at 25°C (Method: SQCP027, SQCP033)	0.02	0.02	

Uncertainty

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

L2387) performed in our Arlington, TX laboratory under ISO/IEC 17025 accreditation (ANAB Certificate pН measurements were 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 A tolerance requirements of ASTM E 288 and NIST Circular 434; with Class 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 firstuse and recalibrated regularly a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to with 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)
1601-1CT	4 L Cubitainer®	18 months
1601-2.5	10 L Cubitainer®	18 months
1601-5	20 L Cubitainer®	18 months
Recommended Storage: 15°C - 30°	C (59°F - 86°F)	

Jason Thomas (06/16/2022) Operations Manager This Certificate of Analysis is designed to comply with ISO Guide 31 "Reference Materials -- Contents of Certificates and Labels."



Certificate # L2387 Testing

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