	RICCA CHEMICAL COMPANY®							<b>JY</b> ®	1841 Broad Str Pocomoke City, MD 21 http://www.riccachemical.c 1-888-GO-RIC	851 com		
		Ce	rtif	ica <sup>-</sup>	te o	of A	nal	ysis	3	(	eustomerservice@riccachemical.c	om
Buffer	, Refe	erence	Stand	lard, p	H 4.0	$0 \pm 0.0$	)1 at 2	5°C				
	_	00117		ъ		NT 1	. 1 500	h			Manufacture Date: NOV 08, 20	023
Lot Nu	mber:	2311F	03	$\mathbf{P}_{1}$	roduct.	Numbe	<b>r</b> : 1500	)			Expiration Date: OCT 20	025
		e for this p le pH valu			-		0.0	-			g temperatures are accurate to $\pm 0.05$ .	
°C	0	<b>5</b>	10	15	20	25	30	35	40	45	50	
pН	4.00	4.00	4.00	4.00	4.00	4.00	4.01	4.02	4.03	4.04	4.06	
Name						CA	S#			Grade		
Water						77	32-18-5			ACS/AS	TM/USP/EP	
Potass	sium Ac	id Phtha	alate			87	7-24-7			Buffer		
Preser	vative					Pr	oprietar	у		Comme	rcial	
Teat							C	aifiantia		De	ault	

Test	Specification	$\mathbf{Result}$	
Appearance	Colorless liquid	Passed	*Not a certified value.
Test	Certified Value	Uncertainty	NIST SRM#

Specification	Reference
Phthalate Reference Buffer Solution (pH = 4.00 at 25°C)	ASTM (D 1498)

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 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)
1500-1	4 L natural poly	24 months
1500-16	500 mL natural poly	24 months
1500-2.5	10 L Cubitainer®	24 months
1500-32	1 L natural poly	24 months
-		

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

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Sharon Travers (11/08/2023) 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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