

Product Specification

Product Number: 1480

Buffer Assortment Pack - pH 4, 7, and 10

Lot Number: SAMPLE

Manufacture Date: N/A

Expiration Date: N/A

Consult the individual product lot Certificates of Analysis for specifications and test results.

Kit Component Part Number	Kit Component Lot Number	Kit Component Product Name
Z1501000	SAMPLE	Buffer, Reference Standard, pH 4.00 ± 0.01 at 25°C (Color Coded Red)
Z1551000	SAMPLE	Buffer, Reference Standard, pH 7.00 ± 0.01 at 25°C (Color Coded Yellow)
Z1601000	SAMPLE	Buffer, Reference Standard, pH 10.00 ± 0.01 at 25°C (Color Coded Blue)
Z6648000	SAMPLE	Rinse Solution, High Purity Water for Rinsing Electrodes and other Laboratory Instruments

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)
1480-16	1 Kit of 500 mL bottles	18 months
1480-20	20 x 20 mL pack	18 months
R1480000-3x4A	3 x 4 L natural poly	18 months

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

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

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			-	Batesville, IN 47006 //www.riccachemical.com 1-888-GO-RICCA
Product	Specification	n	customers	ervice@riccachemical.com
Buffer, Reference Standard,	pH 4.00 ± 0.01 at 25°C	(Color Coded	Red)	
Lot Number: SAMPLE	Product Number: Z150100	0		Manufacture Date: N/A Expiration Date: N/A
The certified value for this product is confirm The NIST Traceable pH value is certified to =			ling temperatur	es are accurate to ± 0.05 .
°C 0 5 10 15 pH 4.00 4.00 4.00 4.00	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		$50\\4.06$	
Name	CAS#	Grade		
Water	7732-18-5		ASTM/USP/E	P.
Potassium Acid Phthalate	877-24-7	Buffer		
Preservative	Proprietary	Comm		
Red Dye	Proprietary	Purifi	ed	
Test	Specifica	tion I	Result	
Appearance	Red liqu	id F	ed liquid	*Not a certified value
Test	Certified	Value U	Jncertainty	NIST SRM#
pH at 25°C (Method: SQCP027, SQ	CP033) 3.990-4.0	10 0	.02	185i, 186-I-g, 186-II-g
Volumetric glassware complies with Class A trecalibrated regularly in accordance with AST traceable to the NIST national mass standard thermometer traceable to NIST standards. All methods. Batch records document raw materia	M E 542 and NIST Procedure NBSII Thermometers and temperature proproducts are prepared according to	R 74-461. Balances ar obes are calibrated be master documents th	e calibrated reg fore first use ar at assure manu	ularly with weights certified nd recalibrated regularly with a facture according to validated

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Part Number	Size / Package Type	Shelf Life (Unopened Container)
R1501000-20F1	20 mL pouch	24 months

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

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This product was tested in an ISO 17025 Accredited Laboratory

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Arlington, TX 76012

Pocomoke City, MD 21851

Produc	t Spe	ecif	icat	ion			-	Batesville, IN 47006 //www.riccachemical.com 1-888-GO-RICCA ervice@riccachemical.com
Buffer, Reference Standard	, pH 7.0	0 ± 0.0)1 at 2	5°C ((Color	Coded	Yellow)	
	D 1 / 1	NT 1	.715	-1000				Manufacture Date: N/A
Lot Number: SAMPLE	Product	Numbe	r: 2108	51000				Expiration Date: N/A
The certified value for this product is confin The NIST traceable pH value is certified to	-			-			ng temperature	s are accurate to ± 0.05 .
°C 0 5 10 15 pH 7.12 7.09 7.06 7.0	-	$\begin{array}{c} 25 \\ 7.00 \end{array}$	$\begin{array}{c} 30 \\ 6.99 \end{array}$	$\begin{array}{c} 35\\ 6.98\end{array}$	$\begin{array}{c} 40 \\ 6.98 \end{array}$	$\begin{array}{c} 45 \\ 6.97 \end{array}$	$50 \\ 6.97$	
Name		CA	\S#			Grade		
Water		77	32-18-5			ACS/A	STM/USP/E	Р
Sodium Phosphate Dibasic		75	58-79-4			ACS		
Potassium Dihydrogen Phosphate		77	78-77-0			ACS		
Preservative		Pr	oprietar	у				
Yellow Dye		Pr	oprietar	'y				
Sodium Hydroxide		13	10-73-2			Reager	nt	
Test			Spe	cificatio	n	R	esult	
Appearance			Yel	low liqu	id	Ye	ellow liquid	*Not a certified value
Test			Cer	tified Va	alue	U	ncertainty	NIST SRM#
pH at 25°C (Method: SQCP027, S	QCP033)		6.99	90-7.010		0.	02	186-I-g, 186-II-g, 191d
Volumetric glassware complies with Class A recalibrated regularly in accordance with A traceable to the NIST national mass standar thermometer traceable to NIST standards.	STM E 542 a: rd. Thermom All products a	nd NIST I eters and are prepar	Procedure temperat red accord	NBSIR 74 ure probe ing to mas	4-461. Ba s are cali ster docu	lances are brated bef ments tha	calibrated regu ore first use an	ularly with weights certified d recalibrated regularly with a acture according to validated

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Part Number	Size / Package Type	Shelf Life (Unopened Container)
R1551000-20F1	20 mL pouch	24 months
D 110		

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

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methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

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Product Spe	ecification			Batesville, IN 4700 //www.riccachemical.com 1-888-GO-RICCA ervice@riccachemical.com
Buffer, Reference Standard, pH 10.	00 ± 0.01 at 25°C (C	Color Code	d Blue)	
Lot Number: SAMPLE Product	Number: Z 1601000			Manufacture Date: N/A Expiration Date: N/A
The certified value for this product is confirmed in indep The NIST traceable pH value is certified to ± 0.01 at 25 °			ng temperature	es are accurate to ± 0.05 .
°C 0 5 10 15 20 pH 10.31 10.23 10.17 10.11 10.05	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	40 50 9.87 9.81		
Name	CAS#	Grade		
Water	7732-18-5	ACS/A	STM/USP/E	P
Sodium Carbonate	497-19-8	ACS		
Sodium Bicarbonate	144-55-8	ACS		
Sodium Hydroxide	1310-73-2	Reagen	nt	
Preservative	Proprietary			
Blue Dye	Proprietary			
Test	Specification	R	esult	
Appearance	Blue liquid	B	lue liquid	*Not a certified valu
Test	Certified Valu	ue U	ncertainty	NIST SRM#
pH at 25°C (Method: SQCP027, SQCP033)	9.990-10.010	0	.02	186-I-g, 186-II-g, 191d

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Part Number	Size / Package Type	Shelf Life (Unopened Container)
R1601000-20F1	20 mL pouch	18 months

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.

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

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Product Specification

Rinse Solution, High Purity Water for Rinsing Electrodes and other Laboratory Instruments

Lot Number: SAMPLE

Product Number: Z6648000

Manufacture Date: N/A

Expiration Date: N/A

This product is suitable for use in rinsing laboratory electrodes and other laboratory instrumentation. This product is nonsterile and is not tested for microbial count.

Name	CAS#	Grade	
Water	7732-18-5	ACS/ASTM/USP/EP	
Test	Specification	Result	
Appearance	Colorless liquid	N/A	

This water is specially purified by conventional water softening, prefiltration, activated carbon organic adsorption, reverse osmosis, mixed bed triple deionization, ultraviolet light irradiation, and 0.2 micron membrane filtration. Consult RICCA CHEMICAL COMPANY Technical Reference Document TRD02 (for lot numbers starting with 1) or TRD03 (for lot numbers starting with 2) for details of the water purification process.

Part Number	Size / Package Type	Shelf Life (Unopened Container)		
R6648000-20F1	20 mL pouch	18 months		
5 110				

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

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