



**Aqua Solutions, Inc.**  
**6913 Highway 225**  
**Deer Park, TX, 77536**  
**281/479-2569**  
**Certificate of Analysis / QC Results**  
**Customer PO # :**

**Packaged Product:** 1528-4L  
BUFFER REFERENCE pH 11.0 (± 0.01) (4L)  
  
**Lot #** 4032855

**Chemical Product:** 1528  
BUFFER REFERENCE pH 11.0 (± 0.01)

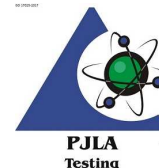
Test	Target/UOM	Range	Result
<b>PREPARED TO FORMULATION ON FILE</b>	YES YES		YES
Sample ID			
Tested	04/08/24		
Tester	BPHI		
Recorded	04/08/24		
<b>Actual pH of product</b>	11.000 PH	10.980 - 11.020	11.007
Sample ID			
Tested	04/08/24		
Tester	BPHI		
Recorded	04/08/24		
<b>QCSP 20 PH CALIBRATION METHODS</b>	YES METHOD		YES
Sample ID			
Tested	04/08/24		
Tester	BPHI		
Recorded	04/08/24		
<b>Actual Temp</b>	25.0 DEG C	24.0 - 26.0	25.4
Sample ID			
Tested	04/08/24		
Tester	BPHI		
Recorded	04/08/24		
<b>APPEARANCE AND COLOR</b>	CLEAR WATER WHITE LIQUID APPEARANCE		PASS
Sample ID			
Tested	04/08/24		
Tester	BPHI		
Recorded	04/08/24		
<b>INSTRUMENTS USED DURING PREPARATION</b>	LAB EQUIPMENT INSTRUMENT		M103,GC,T-288
Sample ID			
Tested	04/08/24		
Tester	BPHI		
Recorded	04/08/24		



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<b>PH NIST TRACEABLE TO SRM 187</b>	YES YES	YES
Sample ID		
Tested	04/08/24	
Tester	BPHI	
Recorded	04/08/24	
<b>PH NIST TRACEABLE TO SRM 2193</b>	YES YES	YES
Sample ID		
Tested	04/08/24	
Tester	BPHI	
Recorded	04/08/24	
<b>TRACEABLE TO NIST SRM 191I AND SRM 191II</b>	YES YES	YES
Sample ID		
Tested	04/08/24	
Tester	BPHI	
Recorded	04/08/24	
<b>EXPIRATION DATE</b>	MM/DD/YY MM/DD/YYYY	04/30/25
Sample ID		
Tested	04/08/24	
Tester	BPHI	
Recorded	04/08/24	
<b>SHELF LIFE OF PRODUCT</b>	SHELF LIFE TIME	1 YEAR
Sample ID		
Tested	04/08/24	
Tester	BPHI	
Recorded	04/08/24	
<b>Made</b>	04/08/24	



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This is to certify that the product listed above has been prepared according to the agreed upon formulation. Aqua Solutions has a Quality Management System which governs each step of the manufacturing process to insure the production of a consistent product. Traceability from the producer's lot number to the original manufacturer's lot number is maintained. Certificate of Analysis for the raw materials used to prepare this product are available on request.

The weights and or volumes used to prepare this product are NIST traceable. All balances used in the preparation of the product are calibrated daily against NIST traceable weights. The balances are maintained and serviced on a regular basis by an outside certified company. All volumetric glassware used is NIST traceable and certified to meet class A specifications.

Unless otherwise agreed to, all chemicals used in the preparation of this product are Reagent ACS Grade.

Statements: The results are only based on the sample tested. The decision rule is based on Aqua Solutions application of risk and Measurement uncertainty outlined in SOP LAB-048. Any additions to, deviations or exclusions from the method are clearly indicated. Where reported, uncertainties expressed at approximately the 95% confidence interval using a coverage factor k=2. Uncertainties are expressed in the same units of concentration as the certified value listed.

Traceability: The results related to Aqua Solutions scope of accreditation are traceable to NIST via an unbroken chain of comparisons.

Unless otherwise stated all testing was performed at our Deer Park Texas facility under ISO 17025 accreditation (PILA Certificate L22-636).

Aqua Solutions' Quality System has been found to conform to Quality Management System Standard 1509001:201 by DNV Certificate Number 5119-2009-AQ-USA-ANAB

This report shall not be reproduced, except in full without approval of the laboratory.

**Quality Manager**