

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

<b>Packaged Product:</b> 1530 BUFFER REFERENCE pH 12.45			
Test	Target/UOM	Range	Result
<b>PREPARED TO FORMULATION ON FILE</b>	YES YES		YES
Sample ID			
Tested 08/21/23			
Tester RSHE			
Recorded 08/21/23			
<b>Actual pH of product</b>	12.450 PH	12.430 - 12.470	12.453
Sample ID			
Tested 08/21/23			
Tester RSHE			
Recorded 08/21/23			
<b>QCSP 20 PH CALIBRATION METHODS</b>	YES METHOD		YES
Sample ID			
Tested 08/21/23			
Tester RSHE			
Recorded 08/21/23			
<b>Actual Temp</b>	25.0 DEG C	24.0 - 26.0	25.0
Sample ID			
Tested 08/21/23			
Tester RSHE			
Recorded 08/21/23			
<b>APPEARANCE AND COLOR</b>	CLEAR LIQUID APPEARANCE		PASS
Sample ID			
Tested 08/21/23			
Tester RSHE			
Recorded 08/21/23			
<b>INSTRUMENTS USED DURING PREPARATION</b>	INSTRUMENT		M91,GC,T-21,M90
Sample ID			
Tested 08/21/23			
Tester RSHE			
Recorded 08/21/23			
<b>PH NIST TRACEABLE TO SRM 187</b>	YES YES		YES
Sample ID			
Tested 08/21/23			
Tester RSHE			
Recorded 08/21/23			
<b>PH NIST TRACEABLE TO SRM 2193</b>	YES YES		YES
Sample ID			
Tested 08/21/23			
Tester RSHE			
Recorded 08/21/23			



Aqua Solutions, Inc.  
Ph: 281-479-2569  
Fax: 281-479-2790  
P.O. Box 70  
Deer Park, TX 77536  
Website: [www.aquasolutions.org](http://www.aquasolutions.org)

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Date: 08/21/23 at 1:15 PM

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**Customer PO # :**

**TRACEABLE TO NIST SRM 191I AND  
SRM 191II**

YES

YES

YES

Sample ID  
Tested 08/21/23  
Tester RSHE  
Recorded 08/21/23

**EXPIRATION DATE**

MM/DD/YY  
MM/DD/YYYY

08/30/24

Sample ID  
Tested 08/21/23  
Tester RSHE  
Recorded 08/21/23

**SHELF LIFE OF PRODUCT**

SHELF LIFE  
TIME

1 YEAR

Sample ID  
Tested 08/21/23  
Tester RSHE  
Recorded 08/21/23

**Lot #** 3080232

**Made** 08/21/23

This is to certify that the product listed above has been prepared according to the agreed upon formulation. The solutions producer 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 numbers to the original manufacturer's lot number is maintained. Certificates of Analysis for the raw materials used to prepare this product are available upon request.

The weights and/or volumes used to prepare this product are N.I.S.T. Traceable. All balances used in the preparation of product are calibrated daily against N.I.S.T. Traceable weights. The balances are maintained and serviced on a regular basis by an outside certified company. All volumetric glassware used is N.I.S.T. Traceable and certified as meeting Class A specifications.

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

**Quality Manager**