



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

<b>Packaged Product:</b> 4130			
HYDROCHLORIC ACID 0.1 NORMAL			
Test	Target/UOM	Range	Result
<b>PREPARED TO FORMULATION ON FILE</b>	YES		YES
Sample ID			
Tested 12/12/23			
Tester AFRE			
Recorded 12/12/23			
<b>SAMPLE COLLECTION &amp; HANDLING PER LAB040</b>	YES		YES
Sample ID			
Tested 12/12/23			
Tester AFRE			
Recorded 12/12/23			
<b>DATE OF SAMPLING FOR TEST PURPOSES</b>	MM/DD/YYYY		12/11/2023
Sample ID			
Tested 12/12/23			
Tester AFRE			
Recorded 12/12/23			
<b>AMBIENT TEMPERATURE DURING SAMPLING DEGC</b>	25.0	10.0 - 35.0	20.0
Sample ID			
Tested 12/12/23			
Tester AFRE			
Recorded 12/12/23			
<b>DATE OF TESTING OF SAMPLE</b>	MM/DD/YYYY		12/11/2023
Sample ID			
Tested 12/12/23			
Tester AFRE			
Recorded 12/12/23			
<b>AMBIENT TEST TEMPERATURE DEGC</b>	20.0	15.0 - 30.0	20.0
Sample ID			
Tested 12/12/23			
Tester AFRE			
Recorded 12/12/23			
<b>Actual Normality</b>	0.1000	0.0995 - 0.1005	0.0998
Sample ID			
Tested 12/12/23			
Tester AFRE			
Recorded 12/12/23			
<b>+ Measurement Uncertainty</b>	0.0008	= 0.0008	0.0008
Sample ID			
Tested 12/12/23			
Tester AFRE			
Recorded 12/12/23			



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<b>QCSP5: STANDARDIZATION OF AQUEOUS ACIDS</b>	YES METHOD		YES
Sample ID			
Tested	12/12/23		
Tester	AFRE		
Recorded	12/12/23		
<b>N.I.S.T. Traceable to SRM 723</b>	YES YES		YES
Sample ID			
Tested	12/12/23		
Tester	AFRE		
Recorded	12/12/23		
<b>Actual Density</b>	1.00008 GM/ML	0.99995 - 1.00021	1.00007
Sample ID			
Tested	12/12/23		
Tester	AFRE		
Recorded	12/12/23		
<b>APPEARANCE AND COLOR</b>	CLEAR LIQUID APPEARANCE		PASS
Sample ID			
Tested	12/12/23		
Tester	AFRE		
Recorded	12/12/23		
<b>INSTRUMENTS USED DURING PREPARATION</b>	INSTRUMENT		M87,T-IV,M55,M91,BID00488,T ID41086
Sample ID			
Tested	12/12/23		
Tester	AFRE		
Recorded	12/12/23		
<b>EXPIRATION DATE</b>	MM/DD/YYYY		12/30/2025
Sample ID			
Tested	12/12/23		
Tester	AFRE		
Recorded	12/12/23		
<b>SHELF LIFE OF PRODUCT</b>	2 YEARS TIME		2 YEARS
Sample ID			
Tested	12/12/23		
Tester	AFRE		
Recorded	12/12/23		

**Lot #** 3120512

**Made** 12/12/23



Aqua Solutions, Inc.  
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Deer Park, TX 77536  
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Page: 3

Date: 12/12/23 at 10:23 AM

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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**