



**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 07/11/22			
Tester MDON			
Recorded 07/11/22			
<b>SAMPLE COLLECTION &amp; HANDLING PER LAB040</b>	YES		YES
Sample ID			
Tested 07/11/22			
Tester MDON			
Recorded 07/11/22			
<b>DATE OF SAMPLING FOR TEST PURPOSES</b>	MM/DD/YYYY		07/11/22
Sample ID			
Tested 07/11/22			
Tester MDON			
Recorded 07/11/22			
<b>AMBIENT TEMPERATURE DURING SAMPLING DEGC</b>	25.0 DEG C	10.0 - 35.0	27.1
Sample ID			
Tested 07/11/22			
Tester MDON			
Recorded 07/11/22			
<b>DATE OF TESTING OF SAMPLE</b>	MM/DD/YYYY		07/11/22
Sample ID			
Tested 07/11/22			
Tester MDON			
Recorded 07/11/22			
<b>AMBIENT TEST TEMPERATURE DEGC</b>	20.0 DEG C	15.0 - 30.0	27.1
Sample ID			
Tested 07/11/22			
Tester MDON			
Recorded 07/11/22			
<b>Actual Normality</b>	0.1000 EQ/L	0.0995 - 0.1005	0.0997
Sample ID			
Tested 07/11/22			
Tester MDON			
Recorded 07/11/22			
<b>+ Measurement Uncertainty</b>	0.0008 EQ/L	= 0.0008	0.0008
Sample ID			
Tested 07/11/22			
Tester MDON			
Recorded 07/11/22			



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<b>QCSP5: STANDARDIZATION OF AQUEOUS ACIDS</b>	YES METHOD		YES
Sample ID			
Tested	07/11/22		
Tester	MDON		
Recorded	07/11/22		
<b>N.I.S.T. Traceable to SRM 723</b>	YES YES		YES
Sample ID			
Tested	07/11/22		
Tester	MDON		
Recorded	07/11/22		
<b>Actual Density</b>	1.00008 GM/ML	0.99995 - 1.00021	1.00003
Sample ID			
Tested	07/11/22		
Tester	MDON		
Recorded	07/11/22		
<b>APPEARANCE AND COLOR</b>	CLEAR LIQUID APPEARANCE		PASS
Sample ID			
Tested	07/11/22		
Tester	MDON		
Recorded	07/11/22		
<b>INSTRUMENTS USED DURING PREPARATION</b>	INSTRUMENT		M87,T203,M55,M91,BID3902
Sample ID			
Tested	07/11/22		
Tester	MDON		
Recorded	07/11/22		
<b>EXPIRATION DATE</b>	MM/DD/YYYY		07/30/24
Sample ID			
Tested	07/11/22		
Tester	MDON		
Recorded	07/11/22		
<b>SHELF LIFE OF PRODUCT</b>	2 YEARS TIME		2 YEARS
Sample ID			
Tested	07/11/22		
Tester	MDON		
Recorded	07/11/22		

**Lot #** 2062843

**Made** 07/11/22



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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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**