



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

Test	Target/UOM	Range	Result
<b>Packaged Product:</b> 4192			
	HYDROCHLORIC ACID 0.5 NORMAL IN METHANOL		
<b>PREPARED TO FORMULATION ON FILE</b>	YES		YES
Sample ID	YES		
Tested 10/16/21			
Tester ADAV			
Recorded 10/16/21			
<b>SAMPLE COLLECTION &amp; HANDLING PER LAB040</b>	YES		YES
Sample ID	YES		
Tested 10/16/21			
Tester ADAV			
Recorded 10/16/21			
<b>DATE OF SAMPLING FOR TEST PURPOSES</b>	MM/DD/YYYY		10/09/21
Sample ID	MM/DD/YYYY		
Tested 10/16/21			
Tester ADAV			
Recorded 10/16/21			
<b>AMBIENT TEMPERATURE DURING SAMPLING DEGC</b>	25.0	10.0 - 35.0	18.1
Sample ID	DEG C		
Tested 10/16/21			
Tester ADAV			
Recorded 10/16/21			
<b>DATE OF TESTING OF SAMPLE</b>	MM/DD/YYYY		10/16/21
Sample ID	MM/DD/YYYY		
Tested 10/16/21			
Tester ADAV			
Recorded 10/16/21			
<b>AMBIENT TEST TEMPERATURE DEGC</b>	20.0	15.0 - 30.0	21.7
Sample ID	DEG C		
Tested 10/16/21			
Tester ADAV			
Recorded 10/16/21			
<b>Actual Normality</b>	0.5000	0.4991 - 0.5009	0.5005
Sample ID	EQ/L		
Tested 10/16/21			
Tester ADAV			
Recorded 10/16/21			
<b>QCSP5: STANDARDIZATION OF AQUEOUS ACIDS</b>	YES		YES
Sample ID	METHOD		
Tested 10/16/21			
Tester ADAV			
Recorded 10/16/21			



Aqua Solutions, Inc.  
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 Deer Park, TX 77536  
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<b>N.I.S.T. Traceable to SRM 723</b>	YES	YES
	YES	
Sample ID		
Tested	10/16/21	
Tester	ADAV	
Recorded	10/16/21	
<b>APPEARANCE AND COLOR</b>	<b>CLEAR LIQUID APPEARANCE</b>	<b>PASS</b>
Sample ID		
Tested	10/16/21	
Tester	ADAV	
Recorded	10/16/21	
<b>INSTRUMENTS USED DURING PREPARATION</b>	<b>INSTRUMENT</b>	<b>GC,T-62,M55,</b>
Sample ID		
Tested	10/16/21	
Tester	ADAV	
Recorded	10/16/21	
<b>Actual Density</b>	<b>0.81619 GM/ML</b>	<b>0.81508 - 0.81730 0.81696</b>
Sample ID		
Tested	10/16/21	
Tester	ADAV	
Recorded	10/16/21	
<b>EXPIRATION DATE</b>	<b>MM/DD/YY MM/DD/YYYY</b>	<b>04/30/22</b>
Sample ID		
Tested	10/16/21	
Tester	ADAV	
Recorded	10/16/21	
<b>Lot #</b>	1100882	
<b>Made</b>	10/16/21	

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**