



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

<b>Packaged Product:</b> 4350			
HYDROCHLORIC ACID 1.0 NORMAL N.I.S.T. TRACEABLE			
Test	Target/UOM	Range	Result
<b>PREPARED TO FORMULATION ON FILE</b>	YES		YES
Sample ID			
Tested 09/26/24			
Tester DTRA			
Recorded 09/26/24			
<b>SAMPLE COLLECTION &amp; HANDLING PER LAB040</b>	YES		YES
Sample ID			
Tested 09/26/24			
Tester DTRA			
Recorded 09/26/24			
<b>Actual Normality</b>	1.0000 EQ/L	0.9995 - 1.0005	1.0002
Sample ID			
Tested 09/26/24			
Tester DTRA			
Recorded 09/26/24			
<b>+ Measurement Uncertainty</b>	0.0079 EQ/L	= 0.0079	0.0079
Sample ID			
Tested 09/26/24			
Tester DTRA			
Recorded 09/26/24			
<b>QCSP5: STANDARDIZATION OF AQUEOUS ACIDS</b>	YES METHOD		YES
Sample ID			
Tested 09/26/24			
Tester DTRA			
Recorded 09/26/24			
<b>Actual Density</b>	1.01594 GM/ML	1.01577 - 1.01611	1.01596
Sample ID			
Tested 09/26/24			
Tester DTRA			
Recorded 09/26/24			
<b>N.I.S.T. Traceable to SRM 723 THAM</b>	YES YES		YES
Sample ID			
Tested 09/26/24			
Tester DTRA			
Recorded 09/26/24			
<b>CERTIFIED TOTAL ORGANIC CARBON (PPM)</b>	1.0 PPM	0.0 - 3.0	0.6
Sample ID			
Tested 09/26/24			
Tester DTRA			
Recorded 09/26/24			



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<b>APPEARANCE AND COLOR</b>	CLEAR LIQUID APPEARANCE	PASS
Sample ID		
Tested 09/26/24		
Tester DTRA		
Recorded 09/26/24		
<b>COLOR</b>	<10 PT-CO	0
Sample ID		
Tested 09/26/24		
Tester DTRA		
Recorded 09/26/24		
<b>INSTRUMENTS USED DURING PREPARATION</b>	INSTRUMENT	T-57,T-169,GC,T-1000,M55,M109
Sample ID		
Tested 09/26/24		
Tester DTRA		
Recorded 09/26/24		
<b>EXPIRATION DATE</b>	MM/DD/YY MM/DD/YYYY	09/30/26
Sample ID		
Tested 09/26/24		
Tester DTRA		
Recorded 09/26/24		
<b>SHELF LIFE OF PRODUCT</b>	2 YEARS TIME	2 YEARS
Sample ID		
Tested 09/26/24		
Tester DTRA		
Recorded 09/26/24		
<b>Lot #</b>	4092559	
<b>Made</b>	09/26/24	

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**