

**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</b>	YES		YES
<b>FILE</b>	YES		
Sample ID			
Tested 04/25/23			
Tester CCOA			
Recorded 04/25/23			
<b>SAMPLE COLLECTION &amp; HANDLING</b>	YES		YES
<b>PER LAB040</b>	YES		
Sample ID			
Tested 04/25/23			
Tester CCOA			
Recorded 04/25/23			
<b>Actual Normality</b>	1.0000 EQ/L	0.9995 - 1.0005	1.0002
Sample ID			
Tested 04/25/23			
Tester CCOA			
Recorded 04/25/23			
<b>QCSP5: STANDARDIZATION OF</b>	YES		YES
<b>AQUEOUS ACIDS</b>	METHOD		
Sample ID			
Tested 04/25/23			
Tester CCOA			
Recorded 04/25/23			
<b>Actual Density</b>	1.01599 GM/ML	1.01513 - 1.01684	1.01592
Sample ID			
Tested 04/25/23			
Tester CCOA			
Recorded 04/25/23			
<b>N.I.S.T. Traceable to SRM 723 THAM</b>	YES YES		YES
Sample ID			
Tested 04/25/23			
Tester CCOA			
Recorded 04/25/23			
<b>CERTIFIED TOTAL ORGANIC</b>	1.0	0.0 - 3.0	2.9
<b>CARBON (PPM)</b>	PPM		
Sample ID			
Tested 04/25/23			
Tester CCOA			
Recorded 04/25/23			
<b>APPEARANCE AND COLOR</b>	CLEAR LIQUID APPEARANCE		PASS
Sample ID			
Tested 04/25/23			
Tester CCOA			
Recorded 04/25/23			

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<b>COLOR</b>	<10 PT-CO	PASS
Sample ID		
Tested	04/25/23	
Tester	CCOA	
Recorded	04/25/23	
<b>INSTRUMENTS USED DURING PREPARATION</b>	<b>INSTRUMENT</b>	T-43,T-14,T-1000,M55,BID0048 8
Sample ID		
Tested	04/25/23	
Tester	CCOA	
Recorded	04/25/23	
<b>EXPIRATION DATE</b>	MM/DD/YY MM/DD/YYYY	04/30/25
Sample ID		
Tested	04/25/23	
Tester	CCOA	
Recorded	04/25/23	
<b>SHELF LIFE OF PRODUCT</b>	2 YEARS TIME	2 YEARS
Sample ID		
Tested	04/25/23	
Tester	CCOA	
Recorded	04/25/23	
<b>Lot #</b>	3041346	
<b>Made</b>	04/25/23	

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**