



**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	YES		
Tested 11/15/23			
Tester SHAR			
Recorded 11/15/23			
<b>SAMPLE COLLECTION &amp; HANDLING PER LAB040</b>	YES		YES
Sample ID	YES		
Tested 11/15/23			
Tester SHAR			
Recorded 11/15/23			
<b>+ Measurement Uncertainty</b>	0.0079	= 0.0079	0.0079
	EQ/L		
Sample ID			
Tested 11/15/23			
Tester SHAR			
Recorded 11/15/23			
<b>QCSP5: STANDARDIZATION OF AQUEOUS ACIDS</b>	YES		YES
	METHOD		
Sample ID			
Tested 11/15/23			
Tester SHAR			
Recorded 11/15/23			
<b>Actual Density</b>	1.01599	1.01513 - 1.01684	1.01601
	GM/ML		
Sample ID			
Tested 11/15/23			
Tester SHAR			
Recorded 11/15/23			
<b>N.I.S.T. Traceable to SRM 723 THAM</b>	YES		YES
	YES		
Sample ID			
Tested 11/15/23			
Tester SHAR			
Recorded 11/15/23			
<b>CERTIFIED TOTAL ORGANIC CARBON (PPM)</b>	1.0	0.0 - 3.0	2.0
	PPM		
Sample ID			
Tested 11/15/23			
Tester SHAR			
Recorded 11/15/23			
<b>APPEARANCE AND COLOR</b>	CLEAR LIQUID		PASS
	APPEARANCE		
Sample ID			
Tested 11/15/23			
Tester SHAR			
Recorded 11/15/23			



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

<b>COLOR</b>	<10 PT-CO	<10
Sample ID		
Tested	11/15/23	
Tester	SHAR	
Recorded	11/15/23	
<b>INSTRUMENTS USED DURING PREPARATION</b>	<b>INSTRUMENT</b>	VF4-N15,T-193,M55,M44,BID0 79
Sample ID		
Tested	11/15/23	
Tester	SHAR	
Recorded	11/15/23	
<b>EXPIRATION DATE</b>	<b>MM/DD/YY MM/DD/YYYY</b>	11/30/25
Sample ID		
Tested	11/15/23	
Tester	SHAR	
Recorded	11/15/23	
<b>SHELF LIFE OF PRODUCT</b>	<b>2 YEARS TIME</b>	2 YEARS
Sample ID		
Tested	11/15/23	
Tester	SHAR	
Recorded	11/15/23	
<b>Actual Normality</b>	1.0000 EQ/L	0.9995 - 1.0005 1.0001
Sample ID		
Tested	11/15/23	
Tester	SHAR	
Recorded	11/15/23	
<b>Lot #</b>	3111050	
<b>Made</b>	11/10/23	

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**