



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

<b>Packaged Product:</b> 4137			
HYDROCHLORIC ACID 0.1 NORMAL IN IPA (ASTM D 664)			
Test	Target/UOM	Range	Result
<b>PREPARED TO FORMULATION ON FILE</b>	YES		YES
Sample ID	YES		
Tested 05/06/24			
Tester SHAR			
Recorded 05/06/24			
<b>SAMPLE COLLECTION &amp; HANDLING PER LAB040</b>	YES		YES
Sample ID	YES		
Tested 05/06/24			
Tester SHAR			
Recorded 05/06/24			
<b>DATE OF SAMPLING FOR TEST PURPOSES</b>	MM/DD/YYYY		05/06/2024
Sample ID	MM/DD/YYYY		
Tested 05/06/24			
Tester SHAR			
Recorded 05/06/24			
<b>AMBIENT TEMPERATURE DURING SAMPLING DEGC</b>	25.0	10.0 - 35.0	21.0
Sample ID	DEG C		
Tested 05/06/24			
Tester SHAR			
Recorded 05/06/24			
<b>DATE OF TESTING OF SAMPLE</b>	MM/DD/YYYY		05/06/2024
Sample ID	MM/DD/YYYY		
Tested 05/06/24			
Tester SHAR			
Recorded 05/06/24			
<b>AMBIENT TEST TEMPERATURE DEG C</b>	20.0	15.0 - 30.0	21.0
Sample ID	DEG C		
Tested 05/06/24			
Tester SHAR			
Recorded 05/06/24			
<b>NORMALITY TO 4 DEC PLACES</b>	0.1000	0.0995 - 0.1005	0.0999
Sample ID	EQUIV/LITER		
Tested 05/06/24			
Tester SHAR			
Recorded 05/06/24			
<b>PREPARED TO ASTM D664</b>	YES		YES
Sample ID	YES		
Tested 05/06/24			
Tester SHAR			
Recorded 05/06/24			



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<b>APPEARANCE AND COLOR</b>	CLEAR LIQUID APPEARANCE	PASS
Sample ID		
Tested 05/06/24		
Tester SHAR		
Recorded 05/06/24		
<b>INSTRUMENTS USED DURING PREPARATION</b>	<b>INSTRUMENT</b>	GC,VF3-J20,M55,BID079,PIDP 98
Sample ID		
Tested 05/06/24		
Tester SHAR		
Recorded 05/06/24		
<b>Actual Density</b>	0.79124 GM/ML	0.79044 - 0.79204 0.79121
Sample ID		
Tested 05/06/24		
Tester SHAR		
Recorded 05/06/24		
<b>EXPIRATION DATE</b>	MM/DD/YY MM/DD/YYYY	11/30/24
Sample ID		
Tested 05/06/24		
Tester SHAR		
Recorded 05/06/24		
<b>SHELF LIFE OF PRODUCT</b>	<b>SHELF LIFE TIME</b>	6 MONTHS
Sample ID		
Tested 05/06/24		
Tester SHAR		
Recorded 05/06/24		
<b>Lot #</b>	4050237	
<b>Made</b>	05/06/24	

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**