



**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 02/15/24			
Tester MHUS			
Recorded 02/15/24			
<b>SAMPLE COLLECTION &amp; HANDLING PER LAB040</b>	YES		YES
Sample ID	YES		
Tested 02/15/24			
Tester MHUS			
Recorded 02/15/24			
<b>DATE OF SAMPLING FOR TEST PURPOSES</b>	MM/DD/YYYY		02/15/2024
Sample ID	MM/DD/YYYY		
Tested 02/15/24			
Tester MHUS			
Recorded 02/15/24			
<b>AMBIENT TEMPERATURE DURING SAMPLING DEGC</b>	25.0	10.0 - 35.0	22.0
Sample ID	DEG C		
Tested 02/15/24			
Tester MHUS			
Recorded 02/15/24			
<b>DATE OF TESTING OF SAMPLE</b>	MM/DD/YYYY		02/15/2024
Sample ID	MM/DD/YYYY		
Tested 02/15/24			
Tester MHUS			
Recorded 02/15/24			
<b>AMBIENT TEST TEMPERATURE DEG C</b>	20.0	15.0 - 30.0	22.0
Sample ID	DEG C		
Tested 02/15/24			
Tester MHUS			
Recorded 02/15/24			
<b>NORMALITY TO 4 DEC PLACES</b>	0.1000	0.0995 - 0.1005	0.0997
Sample ID	EQUIV/LITER		
Tested 02/15/24			
Tester MHUS			
Recorded 02/15/24			
<b>PREPARED TO ASTM D664</b>	YES		YES
Sample ID	YES		
Tested 02/15/24			
Tester MHUS			
Recorded 02/15/24			



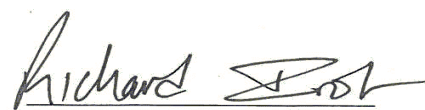
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<b>APPEARANCE AND COLOR</b>	CLEAR LIQUID APPEARANCE	PASS
Sample ID		
Tested	02/15/24	
Tester	MHUS	
Recorded	02/15/24	
<b>INSTRUMENTS USED DURING PREPARATION</b>	<b>INSTRUMENT</b>	GC,T-49,M55,BURET:3902
Sample ID		
Tested	02/15/24	
Tester	MHUS	
Recorded	02/15/24	
<b>Actual Density</b>	0.79124 GM/ML	0.79044 - 0.79204 0.79105
Sample ID		
Tested	02/15/24	
Tester	MHUS	
Recorded	02/15/24	
<b>EXPIRATION DATE</b>	MM/DD/YY MM/DD/YYYY	08/30/24
Sample ID		
Tested	02/15/24	
Tester	MHUS	
Recorded	02/15/24	
<b>SHELF LIFE OF PRODUCT</b>	<b>SHELF LIFE TIME</b>	6 MONTHS
Sample ID		
Tested	02/15/24	
Tester	MHUS	
Recorded	02/15/24	
<b>Lot #</b>	4021452	
<b>Made</b>	02/15/24	

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**