



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

<b>Packaged Product:</b> 4132			
HYDROCHLORIC ACID 0.2 NORMAL IN IPA			
Test	Target/UOM	Range	Result
<b>PREPARED TO FORMULATION ON FILE</b>	YES		YES
Sample ID			
Tested 01/15/24			
Tester AFRE			
Recorded 01/15/24			
<b>SAMPLE COLLECTION &amp; HANDLING PER LAB040</b>	YES		YES
Sample ID			
Tested 01/15/24			
Tester AFRE			
Recorded 01/15/24			
<b>DATE OF SAMPLING FOR TEST PURPOSES</b>	MM/DD/YYYY		01/15/2024
Sample ID			
Tested 01/15/24			
Tester AFRE			
Recorded 01/15/24			
<b>AMBIENT TEMPERATURE DURING SAMPLING DEGC</b>	25.0	10.0 - 35.0	20.0
Sample ID			
Tested 01/15/24			
Tester AFRE			
Recorded 01/15/24			
<b>DATE OF TESTING OF SAMPLE</b>	MM/DD/YYYY		01/15/2024
Sample ID			
Tested 01/15/24			
Tester AFRE			
Recorded 01/15/24			
<b>AMBIENT TEST TEMPERATURE DEGC</b>	20.0	15.0 - 30.0	20.0
Sample ID			
Tested 01/15/24			
Tester AFRE			
Recorded 01/15/24			
<b>N.I.S.T. Traceable to SRM 84 (KHP)</b>	YES		YES
Sample ID			
Tested 01/15/24			
Tester AFRE			
Recorded 01/15/24			
<b>Actual Normality</b>	0.2000	0.1991 - 0.2009	0.2000
	EQ/L		
Sample ID			
Tested 01/15/24			
Tester AFRE			
Recorded 01/15/24			



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<b>APPEARANCE AND COLOR</b>	CLEAR WATER WHITE APPEARANCE	PASS
Sample ID		
Tested	01/15/24	
Tester	AFRE	
Recorded	01/15/24	
<b>INSTRUMENTS USED DURING PREPARATION</b>	<b>LAB EQUIPMENT USED INSTRUMENT</b>	M112,VF6-W1
Sample ID		
Tested	01/15/24	
Tester	AFRE	
Recorded	01/15/24	
<b>Actual Density</b>	0.79591 GM/ML	0.79476 - 0.79706 0.79574
Sample ID		
Tested	01/15/24	
Tester	AFRE	
Recorded	01/15/24	
<b>EXPIRATION DATE</b>	MM/DD/YY MM/DD/YYYY	07/30/24
Sample ID		
Tested	01/15/24	
Tester	AFRE	
Recorded	01/15/24	
<b>Lot #</b>	4011184	
<b>Made</b>	01/15/24	

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**