



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

<b>Packaged Product:</b> 4420			
HYDROCHLORIC ACID 50% V/V / 6 NORMAL			
Test	Target/UOM	Range	Result
<b>PREPARED TO FORMULATION ON FILE</b>	YES		YES
Sample ID			
Tested 12/31/24			
Tester JRIO			
Recorded 12/31/24			
<b>SAMPLE COLLECTION &amp; HANDLING PER LAB040</b>	YES		YES
Sample ID			
Tested 12/31/24			
Tester JRIO			
Recorded 12/31/24			
<b>DATE OF SAMPLING FOR TEST PURPOSES</b>	MM/DD/YYYY		12/31/2024
Sample ID			
Tested 12/31/24			
Tester JRIO			
Recorded 12/31/24			
<b>AMBIENT TEMPERATURE DURING SAMPLING DEGC</b>	25.0	10.0 - 35.0	20.0
Sample ID			
Tested 12/31/24			
Tester JRIO			
Recorded 12/31/24			
<b>DATE OF TESTING OF SAMPLE</b>	MM/DD/YYYY		12/31/2024
Sample ID			
Tested 12/31/24			
Tester JRIO			
Recorded 12/31/24			
<b>AMBIENT TEST TEMPERATURE DEGC</b>	20.0	15.0 - 30.0	20.0
Sample ID			
Tested 12/31/24			
Tester JRIO			
Recorded 12/31/24			
<b>Actual Normality</b>	6.0000	5.9500 - 6.0500	5.9797
	EQ/L		
Sample ID			
Tested 12/31/24			
Tester JRIO			
Recorded 12/31/24			
<b>APHA COLOR</b>	5	0 - 10	0
	COLOR UNITS		
Sample ID			
Tested 12/31/24			
Tester JRIO			
Recorded 12/31/24			



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<b>APPEARANCE AND COLOR</b>	CLEAR WATER WHITE	PASS
	LIQUID APPEARANCE	
Sample ID		
Tested 12/31/24		
Tester JRIO		
Recorded 12/31/24		
<b>INSTRUMENTS USED DURING PREPARATION</b>	<b>INSTRUMENT</b>	T208,T243
Sample ID		
Tested 12/31/24		
Tester JRIO		
Recorded 12/31/24		
<b>COLOR</b>	PT-CO	PASS
Sample ID		
Tested 12/31/24		
Tester JRIO		
Recorded 12/31/24		
<b>Actual Density</b>	1.09738 G/ML	1.09627 - 1.09849 1.09710
Sample ID		
Tested 12/31/24		
Tester JRIO		
Recorded 12/31/24		
<b>SHELF LIFE OF PRODUCT</b>	3 YEARS TIME	3 YEARS
Sample ID		
Tested 12/31/24		
Tester JRIO		
Recorded 12/31/24		
<b>EXPIRATION DATE</b>	MM/DD/YY MM/DD/YYYY	12/30/27
Sample ID		
Tested 12/31/24		
Tester JRIO		
Recorded 12/31/24		
<b>Lot #</b>	4121778	
<b>Made</b>	12/31/24	

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.



Aqua Solutions, Inc.  
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Deer Park, TX 77536  
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Date: 12/31/24 at 8:29 AM

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Unless otherwise agreed to, all chemicals used in the preparation of this product are Reagent ACS grade.

**Quality Manager**