

**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</b>	YES		YES
<b>FILE</b>	YES		
Sample ID			
Tested 11/29/23			
Tester ENOR			
Recorded 11/29/23			
<b>SAMPLE COLLECTION &amp; HANDLING</b>	YES		YES
<b>PER LAB040</b>	YES		
Sample ID			
Tested 11/29/23			
Tester ENOR			
Recorded 11/29/23			
<b>DATE OF SAMPLING FOR TEST</b>	MM/DD/YYYY		11/29/2023
<b>PURPOSES</b>	MM/DD/YYYY		
Sample ID			
Tested 11/29/23			
Tester ENOR			
Recorded 11/29/23			
<b>AMBIENT TEMPERATURE DURING</b>	25.0	10.0 - 35.0	20.4
<b>SAMPLING DEGC</b>	DEG C		
Sample ID			
Tested 11/29/23			
Tester ENOR			
Recorded 11/29/23			
<b>AMBIENT TEST TEMPERATURE</b>	20.0	15.0 - 30.0	20.0
<b>DEG C</b>	DEG C		
Sample ID			
Tested 11/29/23			
Tester ENOR			
Recorded 11/29/23			
<b>Actual Normality</b>	6.0000	5.9500 - 6.0500	6.0181
	EQ/L		
Sample ID			
Tested 11/29/23			
Tester ENOR			
Recorded 11/29/23			
<b>APHA COLOR</b>	5	0 - 10	10
	COLOR UNITS		
Sample ID			
Tested 11/29/23			
Tester DTRA			
Recorded 11/29/23			
<b>APPEARANCE AND COLOR</b>	CLEAR WATER WHITE		PASS
	LIQUID		
	APPEARANCE		
Sample ID			
Tested 11/29/23			
Tester DTRA			
Recorded 11/29/23			

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<b>INSTRUMENTS USED DURING PREPARATION</b>		INSTRUMENT	T43,T218
Sample ID			
Tested	11/29/23		
Tester	DTRA		
Recorded	11/29/23		
<b>COLOR</b>		PT-CO	PASS
Sample ID			
Tested	11/29/23		
Tester	DTRA		
Recorded	11/29/23		
<b>Actual Density</b>		1.09741 GM/ML	1.09621 - 1.09862 1.09776
Sample ID			
Tested	11/29/23		
Tester	DTRA		
Recorded	11/29/23		
<b>SHELF LIFE OF PRODUCT</b>		3 YEARS TIME	3 YEARS
Sample ID			
Tested	11/29/23		
Tester	DTRA		
Recorded	11/29/23		
<b>DATE OF TESTING OF SAMPLE</b>		MM/DD/YYYY MM/DD/YYYY	12/30/2026
Sample ID			
Tested	11/29/23		
Tester	DTRA		
Recorded	11/29/23		
<b>Lot #</b>		3112876	
<b>Made</b>		11/29/23	

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**