

**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 09/13/23			
Tester CCOA			
Recorded 09/13/23			
<b>SAMPLE COLLECTION &amp; HANDLING</b>	YES		YES
<b>PER LAB040</b>	YES		
Sample ID			
Tested 09/13/23			
Tester CCOA			
Recorded 09/13/23			
<b>DATE OF SAMPLING FOR TEST</b>	MM/DD/YYYY		09/13/2023
<b>PURPOSES</b>	MM/DD/YYYY		
Sample ID			
Tested 09/13/23			
Tester CCOA			
Recorded 09/13/23			
<b>AMBIENT TEMPERATURE DURING</b>	25.0	10.0 - 35.0	26.6
<b>SAMPLING DEGC</b>	DEG C		
Sample ID			
Tested 09/13/23			
Tester CCOA			
Recorded 09/13/23			
<b>DATE OF TESTING OF SAMPLE</b>	MM/DD/YYYY		09/13/2023
	MM/DD/YYYY		
Sample ID			
Tested 09/13/23			
Tester CCOA			
Recorded 09/13/23			
<b>AMBIENT TEST TEMPERATURE</b>	20.0	15.0 - 30.0	21.1
<b>DEG C</b>	DEG C		
Sample ID			
Tested 09/13/23			
Tester CCOA			
Recorded 09/13/23			
<b>Actual Normality</b>	6.0000	5.9500 - 6.0500	5.9571
	EQ/L		
Sample ID			
Tested 09/13/23			
Tester CCOA			
Recorded 09/13/23			
<b>APHA COLOR</b>	5	0 - 10	4
	COLOR UNITS		
Sample ID			
Tested 09/13/23			
Tester CCOA			
Recorded 09/13/23			

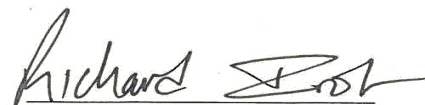
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**Customer PO # :**

<b>APPEARANCE AND COLOR</b>	CLEAR WATER WHITE	PASS
	LIQUID	
	APPEARANCE	
Sample ID		
Tested 09/13/23		
Tester CCOA		
Recorded 09/13/23		
<b>INSTRUMENTS USED DURING PREPARATION</b>	<b>INSTRUMENT</b>	T-246,T-192,M55,BID00488,PI DP100-1
Sample ID		
Tested 09/13/23		
Tester CCOA		
Recorded 09/13/23		
<b>EXPIRATION DATE</b>	MM/DD/YY	09/30/26
	MM/DD/YYYY	
Sample ID		
Tested 09/13/23		
Tester CCOA		
Recorded 09/13/23		
<b>Actual Density</b>	1.09741	1.09621 - 1.09862
	GM/ML	1.09721
Sample ID		
Tested 09/13/23		
Tester CCOA		
Recorded 09/13/23		
<b>SHELF LIFE OF PRODUCT</b>	3 YEARS	3 YEARS
	TIME	
Sample ID		
Tested 09/13/23		
Tester CCOA		
Recorded 09/13/23		
<b>Lot #</b> 3082304		
<b>Made</b> 09/13/23		

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**