



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

<b>Packaged Product:</b> 4200 HYDROCHLORIC ACID 0.5167 NORMAL			
Test	Target/UOM	Range	Result
<b>PREPARED TO FORMULATION ON FILE</b>	YES YES		YES
Sample ID			
Tested 01/17/24			
Tester JENC			
Recorded 01/17/24			
<b>SAMPLE COLLECTION &amp; HANDLING PER LAB040</b>	YES YES		YES
Sample ID			
Tested 01/17/24			
Tester JENC			
Recorded 01/17/24			
<b>DATE OF SAMPLING FOR TEST PURPOSES</b>	MM/DD/YYYY MM/DD/YYYY		01/17/2024
Sample ID			
Tested 01/17/24			
Tester JENC			
Recorded 01/17/24			
<b>AMBIENT TEMPERATURE DURING SAMPLING DEGC</b>	25.0 DEG C	10.0 - 35.0	18.7
Sample ID			
Tested 01/17/24			
Tester JENC			
Recorded 01/17/24			
<b>DATE OF TESTING OF SAMPLE</b>	MM/DD/YYYY MM/DD/YYYY		01/17/2024
Sample ID			
Tested 01/17/24			
Tester JENC			
Recorded 01/17/24			
<b>AMBIENT TEST TEMPERATURE DEGC</b>	20.0 DEG C	15.0 - 30.0	18.7
Sample ID			
Tested 01/17/24			
Tester JENC			
Recorded 01/17/24			
<b>Actual Normality</b>	0.5167 EQ/L	0.5162 - 0.5172	0.5163
Sample ID			
Tested 01/17/24			
Tester JENC			
Recorded 01/17/24			
<b>QCSP5: STANDARDIZATION OF AQUEOUS ACIDS</b>	YES METHOD		YES
Sample ID			
Tested 01/17/24			
Tester JENC			
Recorded 01/17/24			



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

<b>N.I.S.T. Traceable to SRM 723</b>	YES YES	YES
Sample ID		
Tested	01/17/24	
Tester	JENC	
Recorded	01/17/24	
<b>APPEARANCE AND COLOR</b>	CLEAR LIQUID APPEARANCE	PASS
Sample ID		
Tested	01/17/24	
Tester	JENC	
Recorded	01/17/24	
<b>INSTRUMENTS USED DURING PREPARATION</b>	INSTRUMENT	M112,VF12-1,BID-02259,PID-M 91
Sample ID		
Tested	01/17/24	
Tester	JENC	
Recorded	01/17/24	
<b>Actual Density</b>	1.00752 GM/ML	1.00715 - 1.00790 1.00746
Sample ID		
Tested	01/17/24	
Tester	JENC	
Recorded	01/17/24	
<b>EXPIRATION DATE</b>	MM/DD/YYYY MM/DD/YYYY	07/30/2025
Sample ID		
Tested	01/17/24	
Tester	JENC	
Recorded	01/17/24	
<b>Lot #</b>	4011260	
<b>Made</b>	01/17/24	

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**