



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

<b>Packaged Product:</b> 4170			
HYDROCHLORIC ACID 0.25 NORMAL			
Test	Target/UOM	Range	Result
Actual Normality	0.2500 EQ/L	0.2495 - 0.2505	0.2496
Sample ID			
Tested	02/06/25		
Tester	BKIR		
Recorded	02/06/25		
<b>QCSP5: STANDARDIZATION OF AQUEOUS ACIDS</b>	YES METHOD		YES
Sample ID			
Tested	02/06/25		
Tester	BKIR		
Recorded	02/06/25		
<b>N.I.S.T. Traceable to SRM 723</b>	Yes YES		YES
Sample ID			
Tested	02/06/25		
Tester	BKIR		
Recorded	02/06/25		
<b>PREPARED TO FORMULATION ON FILE</b>	YES YES		YES
Sample ID			
Tested	02/06/25		
Tester	BKIR		
Recorded	02/06/25		
<b>SAMPLE COLLECTION &amp; HANDLING PER LAB040</b>	YES YES		YES
Sample ID			
Tested	02/06/25		
Tester	BKIR		
Recorded	02/06/25		
<b>DATE OF SAMPLING FOR TEST PURPOSES</b>	MM/DD/YYYY MM/DD/YYYY		02/06/2025
Sample ID			
Tested	02/06/25		
Tester	BKIR		
Recorded	02/06/25		
<b>AMBIENT TEMPERATURE DURING SAMPLING DEGC</b>	25.0 DEG C	10.0 - 35.0	20.3
Sample ID			
Tested	02/06/25		
Tester	BKIR		
Recorded	02/06/25		
<b>DATE OF TESTING OF SAMPLE</b>	MM/DD/YYYY MM/DD/YYYY		02/06/2025
Sample ID			
Tested	02/06/25		
Tester	BKIR		
Recorded	02/06/25		



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<b>AMBIENT TEST TEMPERATURE</b>	20.0	15.0 - 30.0	20.3
<b>DEG C</b>	DEG C		
Sample ID			
Tested	02/06/25		
Tester	BKIR		
Recorded	02/06/25		
<b>APPEARANCE AND COLOR</b>	CLEAR LIQUID		PASS
	APPEARANCE		
Sample ID			
Tested	02/06/25		
Tester	BKIR		
Recorded	02/06/25		
<b>INSTRUMENTS USED DURING PREPARATION</b>	INSTRUMENT		VF4-N22,GC,T246
Sample ID			
Tested	02/06/25		
Tester	BKIR		
Recorded	02/06/25		
<b>EXPIRATION DATE</b>	MM/DD/YY		02/28/27
	MM/DD/YYYY		
Sample ID			
Tested	02/06/25		
Tester	BKIR		
Recorded	02/06/25		
<b>Lot #</b>	5012413		
<b>Made</b>	02/06/25		

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**