

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

<b>Packaged Product:</b> 4133			
HYDROCHLORIC ACID 0.1 NORMAL IN METHANOL			
Test	Target/UOM	Range	Result
<b>PREPARED TO FORMULATION ON</b>	YES		YES
<b>FILE</b>	YES		
Sample ID			
Tested 02/01/24			
Tester SHAR			
Recorded 02/01/24			
<b>SAMPLE COLLECTION &amp; HANDLING</b>	YES		YES
<b>PER LAB040</b>	YES		
Sample ID			
Tested 02/01/24			
Tester SHAR			
Recorded 02/01/24			
<b>DATE OF SAMPLING FOR TEST</b>	MM/DD/YYYY		02/01/2024
<b>PURPOSES</b>	MM/DD/YYYY		
Sample ID			
Tested 02/01/24			
Tester SHAR			
Recorded 02/01/24			
<b>AMBIENT TEMPERATURE DURING</b>	25.0	10.0 - 35.0	21.0
<b>SAMPLING DEGC</b>	DEG C		
Sample ID			
Tested 02/01/24			
Tester SHAR			
Recorded 02/01/24			
<b>DATE OF TESTING OF SAMPLE</b>	MM/DD/YYYY		02/01/2024
	MM/DD/YYYY		
Sample ID			
Tested 02/01/24			
Tester SHAR			
Recorded 02/01/24			
<b>AMBIENT TEST TEMPERATURE</b>	20.0	15.0 - 30.0	21.0
<b>DEG C</b>	DEG C		
Sample ID			
Tested 02/01/24			
Tester SHAR			
Recorded 02/01/24			
<b>Actual Normality</b>	0.1000	0.0991 - 0.1009	0.0995
	EQ/L		
Sample ID			
Tested 02/01/24			
Tester SHAR			
Recorded 02/01/24			
<b>QCSP5: STANDARDIZATION OF</b>	YES		YES
<b>AQUEOUS ACIDS</b>	METHOD		
Sample ID			
Tested 02/01/24			
Tester SHAR			
Recorded 02/01/24			

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<b>N.I.S.T. Traceable to SRM 723 THAM</b>	YES YES	YES
Sample ID		
Tested 02/01/24		
Tester SHAR		
Recorded 02/01/24		
<b>Actual Density</b>	0.79722 GM/ML	0.79596 - 0.79848 0.79752
Sample ID		
Tested 02/01/24		
Tester SHAR		
Recorded 02/01/24		
<b>APPEARANCE AND COLOR</b>	CLEAR LIQUID APPEARANCE	PASS
Sample ID		
Tested 02/01/24		
Tester SHAR		
Recorded 02/01/24		
<b>INSTRUMENTS USED DURING PREPARATION</b>	INSTRUMENT	M100,VF12-3,M55,BURET:079, M91
Sample ID		
Tested 02/01/24		
Tester SHAR		
Recorded 02/01/24		
<b>EXPIRATION DATE</b>	MM/DD/YYYY MM/DD/YYYY	05/30/2024
Sample ID		
Tested 02/01/24		
Tester SHAR		
Recorded 02/01/24		
<b>Lot #</b>	4013135	
<b>Made</b>	02/01/24	

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**