



**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 FILE</b>	YES		YES
Sample ID			
Tested 04/12/24			
Tester AFRE			
Recorded 04/12/24			
<b>SAMPLE COLLECTION &amp; HANDLING PER LAB040</b>	YES		YES
Sample ID			
Tested 04/12/24			
Tester AFRE			
Recorded 04/12/24			
<b>DATE OF SAMPLING FOR TEST PURPOSES</b>	MM/DD/YYYY		04/12/2024
Sample ID			
Tested 04/12/24			
Tester AFRE			
Recorded 04/12/24			
<b>AMBIENT TEMPERATURE DURING SAMPLING DEGC</b>	25.0	10.0 - 35.0	20.0
Sample ID			
Tested 04/12/24			
Tester AFRE			
Recorded 04/12/24			
<b>DATE OF TESTING OF SAMPLE</b>	MM/DD/YYYY		04/12/2024
Sample ID			
Tested 04/12/24			
Tester AFRE			
Recorded 04/12/24			
<b>AMBIENT TEST TEMPERATURE DEGC</b>	20.0	15.0 - 30.0	20.0
Sample ID			
Tested 04/12/24			
Tester AFRE			
Recorded 04/12/24			
<b>Actual Normality</b>	0.1000	0.0991 - 0.1009	0.0998
	EQ/L		
Sample ID			
Tested 04/12/24			
Tester AFRE			
Recorded 04/12/24			
<b>QCSP5: STANDARDIZATION OF AQUEOUS ACIDS</b>	YES		YES
	METHOD		
Sample ID			
Tested 04/12/24			
Tester AFRE			
Recorded 04/12/24			



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<b>N.I.S.T. Traceable to SRM 723 THAM</b>	YES	YES
	YES	
Sample ID		
Tested	04/12/24	
Tester	AFRE	
Recorded	04/12/24	
<b>Actual Density</b>	0.79722	0.79596 - 0.79848
	GM/ML	
Sample ID		
Tested	04/12/24	
Tester	AFRE	
Recorded	04/12/24	
<b>APPEARANCE AND COLOR</b>	CLEAR LIQUID APPEARANCE	PASS
Sample ID		
Tested	04/12/24	
Tester	AFRE	
Recorded	04/12/24	
<b>INSTRUMENTS USED DURING PREPARATION</b>	INSTRUMENT	M112,VF2-B36,BID-00488,PID-M91
Sample ID		
Tested	04/12/24	
Tester	AFRE	
Recorded	04/12/24	
<b>EXPIRATION DATE</b>	MM/DD/YYYY	07/30/2024
	MM/DD/YYYY	
Sample ID		
Tested	04/12/24	
Tester	AFRE	
Recorded	04/12/24	
<b>Lot #</b>	4041214	
<b>Made</b>	04/12/24	

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**