



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

Test	Target/UOM	Range	Result
<b>Packaged Product:</b> UC018F			
	HYDROCHLORIC ACID 0.5 NORMAL (STANDARDIZED)		
<b>PREPARED TO FORMULATION ON FILE</b>	YES		YES
Sample ID			
Tested 04/11/24			
Tester AFRE			
Recorded 04/11/24			
<b>SAMPLE COLLECTION &amp; HANDLING PER LAB040</b>	YES		YES
Sample ID			
Tested 04/11/24			
Tester AFRE			
Recorded 04/11/24			
<b>DATE OF SAMPLING FOR TEST PURPOSES</b>	MM/DD/YYYY		04/11/2024
Sample ID			
Tested 04/11/24			
Tester AFRE			
Recorded 04/11/24			
<b>AMBIENT TEMPERATURE DURING SAMPLING DEGC</b>	25.0 DEG C	10.0 - 35.0	20.0
Sample ID			
Tested 04/11/24			
Tester AFRE			
Recorded 04/11/24			
<b>DATE OF TESTING OF SAMPLE</b>	MM/DD/YYYY MM/DD/YYYY		04/11/2024
Sample ID			
Tested 04/11/24			
Tester AFRE			
Recorded 04/11/24			
<b>AMBIENT TEST TEMPERATURE DEGC</b>	20.0 DEG C	15.0 - 30.0	20.0
Sample ID			
Tested 04/11/24			
Tester AFRE			
Recorded 04/11/24			
<b>Actual Normality</b>	0.5000 EQ/L	0.4995 - 0.5005	0.5001
Sample ID			
Tested 04/11/24			
Tester AFRE			
Recorded 04/11/24			
<b>APPEARANCE AND COLOR</b>	CLEAR LIQUID APPEARANCE		PASS
Sample ID			
Tested 04/11/24			
Tester AFRE			
Recorded 04/11/24			



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INSTRUMENTS USED DURING PREPARATION	INSTRUMENT	GC, VF5-L10, BID-00488, PID-17 7
Sample ID		
Tested 04/11/24		
Tester AFRE		
Recorded 04/11/24		
<b>Actual Density</b>	1.00713 GM/ML	1.00664 - 1.00763 1.00724
Sample ID		
Tested 04/11/24		
Tester AFRE		
Recorded 04/11/24		
<b>EXPIRATION DATE</b>	MM/DD/YY MM/DD/YYYY	10/30/24
Sample ID		
Tested 04/11/24		
Tester AFRE		
Recorded 04/11/24		
<b>Lot #</b> 4041032		
<b>Made</b> 04/11/24		

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**