

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

<b>Packaged Product:</b> 4137 HYDROCHLORIC ACID 0.1 NORMAL IN IPA (ASTM D 664)			
Test	Target/UOM	Range	Result
<b>PREPARED TO FORMULATION ON</b>	YES		YES
<b>FILE</b>	YES		
Sample ID			
Tested 10/11/23			
Tester JENC			
Recorded 10/11/23			
<b>SAMPLE COLLECTION &amp; HANDLING</b>	YES		YES
<b>PER LAB040</b>	YES		
Sample ID			
Tested 10/11/23			
Tester JENC			
Recorded 10/11/23			
<b>DATE OF SAMPLING FOR TEST</b>	MM/DD/YYYY		10/11/2023
<b>PURPOSES</b>	MM/DD/YYYY		
Sample ID			
Tested 10/11/23			
Tester JENC			
Recorded 10/11/23			
<b>AMBIENT TEMPERATURE DURING</b>	25.0	10.0 - 35.0	21.5
<b>SAMPLING DEGC</b>	DEG C		
Sample ID			
Tested 10/11/23			
Tester JENC			
Recorded 10/11/23			
<b>DATE OF TESTING OF SAMPLE</b>	MM/DD/YYYY		10/11/2023
	MM/DD/YYYY		
Sample ID			
Tested 10/11/23			
Tester JENC			
Recorded 10/11/23			
<b>AMBIENT TEST TEMPERATURE</b>	20.0	15.0 - 30.0	21.5
<b>DEG C</b>	DEG C		
Sample ID			
Tested 10/11/23			
Tester JENC			
Recorded 10/11/23			
<b>NORMALITY TO 4 DEC PLACES</b>	0.1000	0.0995 - 0.1005	0.1002
	EQUIV/LITER		
Sample ID			
Tested 10/11/23			
Tester JENC			
Recorded 10/11/23			
<b>PREPARED TO ASTM D664</b>	YES		YES
	YES		
Sample ID			
Tested 10/11/23			
Tester JENC			
Recorded 10/11/23			

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<b>APPEARANCE AND COLOR</b>	CLEAR LIQUID APPEARANCE	PASS
Sample ID		
Tested 10/11/23		
Tester JENC		
Recorded 10/11/23		
<b>INSTRUMENTS USED DURING PREPARATION</b>	INSTRUMENT	M55,GC,VF12-82,P72,BID0225 9,TID411
Sample ID		
Tested 10/11/23		
Tester JENC		
Recorded 10/11/23		
<b>Actual Density</b>	0.79124 GM/ML	0.79044 - 0.79204 0.79079
Sample ID		
Tested 10/11/23		
Tester JENC		
Recorded 10/11/23		
<b>EXPIRATION DATE</b>	MM/DD/YY MM/DD/YYYY	04/30/24
Sample ID		
Tested 10/11/23		
Tester JENC		
Recorded 10/11/23		
<b>SHELF LIFE OF PRODUCT</b>	SHELF LIFE TIME	6 MONTHS
Sample ID		
Tested 10/11/23		
Tester JENC		
Recorded 10/11/23		
<b>Lot #</b> 3100614		
<b>Made</b> 10/11/23		

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**