



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

<b>Packaged Product:</b> 4354			
HYDROCHLORIC ACID 1.2 NORMAL SOLUTION			
Test	Target/UOM	Range	Result
<b>PREPARED TO FORMULATION ON FILE</b>	YES		YES
Sample ID			
Tested 07/14/23			
Tester MHUS			
Recorded 07/14/23			
<b>SAMPLE COLLECTION &amp; HANDLING PER LAB040</b>	YES		YES
Sample ID			
Tested 07/14/23			
Tester MHUS			
Recorded 07/14/23			
<b>DATE OF SAMPLING FOR TEST PURPOSES</b>	MM/DD/YYYY		07/14/23
Sample ID			
Tested 07/14/23			
Tester MHUS			
Recorded 07/14/23			
<b>AMBIENT TEMPERATURE DURING SAMPLING DEGC</b>	25.0 DEG C	10.0 - 35.0	32.4
Sample ID			
Tested 07/14/23			
Tester MHUS			
Recorded 07/14/23			
<b>DATE OF TESTING OF SAMPLE</b>	MM/DD/YYYY MM/DD/YYYY		07/14/23
Sample ID			
Tested 07/14/23			
Tester MHUS			
Recorded 07/14/23			
<b>AMBIENT TEST TEMPERATURE DEGC</b>	20.0 DEG C	15.0 - 30.0	23.5
Sample ID			
Tested 07/14/23			
Tester MHUS			
Recorded 07/14/23			
<b>NORMALITY TO 4 DEC PLACES</b>	1.2000 EQUIV/LITER	1.1995 - 1.2005	1.1999
Sample ID			
Tested 07/14/23			
Tester MHUS			
Recorded 07/14/23			
<b>QCSP5: STANDARDIZATION OF AQUEOUS ACIDS</b>	YES METHOD		YES
Sample ID			
Tested 07/14/23			
Tester MHUS			
Recorded 07/14/23			



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<b>N.I.S.T. TRACEABLE TO SRM 723</b>	YES		YES
	YES		
Sample ID			
Tested	07/14/23		
Tester	MHUS		
Recorded	07/14/23		
<b>APPEARANCE AND COLOR</b>	<b>CLEAR LIQUID APPEARANCE</b>		<b>PASS</b>
Sample ID			
Tested	07/14/23		
Tester	MHUS		
Recorded	07/14/23		
<b>INSTRUMENTS USED DURING PREPARATION</b>	<b>INSTRUMENT</b>		<b>M87,T-4,M55,BID3902,PIDM91</b>
Sample ID			
Tested	07/14/23		
Tester	MHUS		
Recorded	07/14/23		
<b>Actual Density</b>	<b>1.01936</b>	<b>1.01925 - 1.01946</b>	<b>1.01945</b>
	<b>GM/ML</b>		
Sample ID			
Tested	07/14/23		
Tester	MHUS		
Recorded	07/14/23		
<b>Lot #</b>	3071132		
<b>Made</b>	07/14/23		

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**