



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

Packaged Product: 4350			
HYDROCHLORIC ACID 1.0 NORMAL N.I.S.T. TRACEABLE			
Test	Target/UOM	Range	Result
PREPARED TO FORMULATION ON FILE	YES		YES
Sample ID			
Tested 11/29/23			
Tester DTRA			
Recorded 11/29/23			
SAMPLE COLLECTION & HANDLING PER LAB040	YES		YES
Sample ID			
Tested 11/29/23			
Tester DTRA			
Recorded 11/29/23			
Actual Normality	1.0000 EQ/L	0.9995 - 1.0005	1.0003
Sample ID			
Tested 11/29/23			
Tester DTRA			
Recorded 11/29/23			
+ Measurement Uncertainty	0.0079 EQ/L	= 0.0079	0.0079
Sample ID			
Tested 11/29/23			
Tester DTRA			
Recorded 11/29/23			
QCSP5: STANDARDIZATION OF AQUEOUS ACIDS	YES METHOD		YES
Sample ID			
Tested 11/29/23			
Tester DTRA			
Recorded 11/29/23			
Actual Density	1.01599 GM/ML	1.01513 - 1.01684	1.01597
Sample ID			
Tested 11/29/23			
Tester DTRA			
Recorded 11/29/23			
N.I.S.T. Traceable to SRM 723 THAM	YES YES		YES
Sample ID			
Tested 11/29/23			
Tester DTRA			
Recorded 11/29/23			
CERTIFIED TOTAL ORGANIC CARBON (PPM)	1.0 PPM	0.0 - 3.0	0.0
Sample ID			
Tested 11/29/23			
Tester DTRA			
Recorded 11/29/23			



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APPEARANCE AND COLOR	CLEAR LIQUID APPEARANCE	PASS
Sample ID		
Tested 11/29/23		
Tester DTRA		
Recorded 11/29/23		
COLOR	<10 PT-CO	<10
Sample ID		
Tested 11/29/23		
Tester DTRA		
Recorded 11/29/23		
INSTRUMENTS USED DURING PREPARATION	INSTRUMENT	T148,GC,T211
Sample ID		
Tested 11/29/23		
Tester DTRA		
Recorded 11/29/23		
EXPIRATION DATE	MM/DD/YY MM/DD/YYYY	12/30/25
Sample ID		
Tested 11/29/23		
Tester DTRA		
Recorded 11/29/23		
SHELF LIFE OF PRODUCT	2 YEARS TIME	2 YEARS
Sample ID		
Tested 11/29/23		
Tester DTRA		
Recorded 11/29/23		
Lot #	3112145	
Made	11/29/23	

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