

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

Packaged Product: 4130 HYDROCHLORIC ACID 0.1 NORMAL			
Test	Target/UOM	Range	Result
PREPARED TO FORMULATION ON	YES		YES
FILE	YES		
Sample ID			
Tested 08/01/23			
Tester RIRO			
Recorded 08/01/23			
SAMPLE COLLECTION & HANDLING	YES		YES
PER LAB040	YES		
Sample ID			
Tested 08/01/23			
Tester RIRO			
Recorded 08/01/23			
DATE OF SAMPLING FOR TEST	MM/DD/YYYY		08/01/23
PURPOSES	MM/DD/YYYY		
Sample ID			
Tested 08/01/23			
Tester RIRO			
Recorded 08/01/23			
AMBIENT TEMPERATURE DURING	25.0	10.0 - 35.0	25.0
SAMPLING DEGC	DEG C		
Sample ID			
Tested 08/01/23			
Tester RIRO			
Recorded 08/01/23			
DATE OF TESTING OF SAMPLE	MM/DD/YYYY		08/01/23
	MM/DD/YYYY		
Sample ID			
Tested 08/01/23			
Tester RIRO			
Recorded 08/01/23			
AMBIENT TEST TEMPERATURE	20.0	15.0 - 30.0	21.0
DEG C	DEG C		
Sample ID			
Tested 08/01/23			
Tester RIRO			
Recorded 08/01/23			
Actual Normality	0.1000	0.0995 - 0.1005	0.0997
	EQ/L		
Sample ID			
Tested 08/01/23			
Tester RIRO			
Recorded 08/01/23			
+/- Measurement Uncertainty	0.0008	= 0.0008	0.0008
	EQ/L		
Sample ID			
Tested 08/01/23			
Tester RIRO			
Recorded 08/01/23			

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QCSP5: STANDARDIZATION OF AQUEOUS ACIDS		YES	YES
METHOD			
Sample ID			
Tested 08/01/23			
Tester RIRO			
Recorded 08/01/23			
N.I.S.T. Traceable to SRM 723		YES	YES
YES			
Sample ID			
Tested 08/01/23			
Tester RIRO			
Recorded 08/01/23			
Actual Density		1.00008	0.99995 - 1.00021
		GM/ML	1.00003
Sample ID			
Tested 08/01/23			
Tester RIRO			
Recorded 08/01/23			
APPEARANCE AND COLOR		CLEAR LIQUID	PASS
		APPEARANCE	
Sample ID			
Tested 08/01/23			
Tester RIRO			
Recorded 08/01/23			
INSTRUMENTS USED DURING PREPARATION		INSTRUMENT	M55,M112,T21,M91,M110,TID4
			1121
Sample ID			
Tested 08/01/23			
Tester RIRO			
Recorded 08/01/23			
EXPIRATION DATE		MM/DD/YYYY	08/30/25
Sample ID			
Tested 08/01/23			
Tester RIRO			
Recorded 08/01/23			
SHELF LIFE OF PRODUCT		2 YEARS	2 YEARS
		TIME	
Sample ID			
Tested 08/01/23			
Tester RIRO			
Recorded 08/01/23			
Lot #		3073127	
Made		08/01/23	



Aqua Solutions, Inc.
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Page: 3

Date: 08/01/23 at 3:17 PM

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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