



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

Packaged Product: 4355			
HYDROCHLORIC ACID 2.0 NORMAL			
Test	Target/UOM	Range	Result
PREPARED TO FORMULATION ON FILE	YES		YES
Sample ID			
Tested 11/13/24			
Tester LWIL			
Recorded 11/13/24			
SAMPLE COLLECTION & HANDLING PER LAB040	YES		YES
Sample ID			
Tested 11/13/24			
Tester LWIL			
Recorded 11/13/24			
DATE OF SAMPLING FOR TEST PURPOSES	MM/DD/YYYY		11/13/2024
Sample ID			
Tested 11/13/24			
Tester LWIL			
Recorded 11/13/24			
AMBIENT TEMPERATURE DURING SAMPLING DEGC	25.0	10.0 - 35.0	20.6
Sample ID			
Tested 11/13/24			
Tester LWIL			
Recorded 11/13/24			
DATE OF TESTING OF SAMPLE	MM/DD/YYYY		11/13/2024
Sample ID			
Tested 11/13/24			
Tester LWIL			
Recorded 11/13/24			
AMBIENT TEST TEMPERATURE DEGC	20.0	15.0 - 30.0	20.6
Sample ID			
Tested 11/13/24			
Tester LWIL			
Recorded 11/13/24			
Actual Normality	2.0000	1.9990 - 2.0010	2.0001
Sample ID			
Tested 11/13/24			
Tester LWIL			
Recorded 11/13/24			
QCSP5: STANDARDIZATION OF AQUEOUS ACIDS	YES		YES
Sample ID			
Tested 11/13/24			
Tester LWIL			
Recorded 11/13/24			



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N.I.S.T. Traceable to SRM 723 THAM	YES		YES
	YES		
Sample ID			
Tested	11/13/24		
Tester	LWIL		
Recorded	11/13/24		
CERTIFIED TOTAL ORGANIC CARBON (PPM)	1.0	0.0 - 4.0	0.9
	PPM		
Sample ID			
Tested	11/13/24		
Tester	LWIL		
Recorded	11/13/24		
APPEARANCE AND COLOR	CLEAR LIQUID APPEARANCE		PASS
Sample ID			
Tested	11/13/24		
Tester	LWIL		
Recorded	11/13/24		
INSTRUMENTS USED DURING PREPARATION	INSTRUMENT		T146,T211,M55
Sample ID			
Tested	11/13/24		
Tester	LWIL		
Recorded	11/13/24		
Actual Color, APHA	10	0 - 10	3
	COLOR		
Sample ID			
Tested	11/13/24		
Tester	LWIL		
Recorded	11/13/24		
Prepared with 36.5-38% ACS HCL	YES		YES
	YES		
Sample ID			
Tested	11/13/24		
Tester	LWIL		
Recorded	11/13/24		
IDENTITY	PASS		PASS
	PASS		
Sample ID			
Tested	11/13/24		
Tester	LWIL		
Recorded	11/13/24		
EXPIRATION DATE	MM/DD/YY		11/30/26
	MM/DD/YYYY		
Sample ID			
Tested	11/13/24		
Tester	LWIL		
Recorded	11/13/24		



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SHELF LIFE OF PRODUCT	SHELF LIFE TIME	2 YEARS
Sample ID		
Tested 11/13/24		
Tester LWIL		
Recorded 11/13/24		
Actual Density	1.03294 G/ML	1.03243 - 1.03345 1.03292
Sample ID		
Tested 11/13/24		
Tester LWIL		
Recorded 11/13/24		
SPECIFIC GRAVITY	1.035 SPEC GRAV	1.030 - 1.040 1.035
Sample ID		
Tested 11/13/24		
Tester LWIL		
Recorded 11/13/24		
Assay w/v HCL	7.29 W/V%	6.12 - 7.48 7.29
Sample ID		
Tested 11/14/24		
Tester LWIL		
Recorded 11/14/24		
Lot # 4110524		
Made 11/14/24		

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