



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 06/05/23			
Tester MHUS			
Recorded 06/05/23			
SAMPLE COLLECTION & HANDLING PER LAB040	YES		YES
Sample ID			
Tested 06/05/23			
Tester MHUS			
Recorded 06/05/23			
DATE OF SAMPLING FOR TEST PURPOSES	MM/DD/YYYY		06/05/23
Sample ID			
Tested 06/05/23			
Tester MHUS			
Recorded 06/05/23			
AMBIENT TEMPERATURE DURING SAMPLING DEGC	25.0	10.0 - 35.0	29.0
Sample ID			
Tested 06/05/23			
Tester MHUS			
Recorded 06/05/23			
DATE OF TESTING OF SAMPLE	MM/DD/YYYY		06/05/23
Sample ID			
Tested 06/05/23			
Tester MHUS			
Recorded 06/05/23			
AMBIENT TEST TEMPERATURE DEGC	20.0	15.0 - 30.0	21.9
Sample ID			
Tested 06/05/23			
Tester MHUS			
Recorded 06/05/23			
Actual Normality	2.0000	1.9990 - 2.0010	2.0004
Sample ID			
Tested 06/05/23			
Tester MHUS			
Recorded 06/05/23			
QCSP5: STANDARDIZATION OF AQUEOUS ACIDS	YES		YES
Sample ID			
Tested 06/05/23			
Tester MHUS			
Recorded 06/05/23			



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N.I.S.T. Traceable to SRM 723 THAM	YES		YES
	YES		
Sample ID			
Tested	06/05/23		
Tester	MHUS		
Recorded	06/05/23		
CERTIFIED TOTAL ORGANIC CARBON (PPM)	1	0 - 4	1
	PPM		
Sample ID			
Tested	06/05/23		
Tester	MHUS		
Recorded	06/05/23		
APPEARANCE AND COLOR	CLEAR LIQUID APPEARANCE		PASS
Sample ID			
Tested	06/05/23		
Tester	MHUS		
Recorded	06/05/23		
INSTRUMENTS USED DURING PREPARATION	INSTRUMENT		M55,M34,M44,T92,VF6-W1,T2 09,M91,BI
Sample ID			
Tested	06/05/23		
Tester	MHUS		
Recorded	06/05/23		
Actual Color, APHA	10	0 - 10	5
	COLOR		
Sample ID			
Tested	06/05/23		
Tester	MHUS		
Recorded	06/05/23		
Prepared with 36.5-38% ACS HCL	YES		YWS
	YES		
Sample ID			
Tested	06/05/23		
Tester	MHUS		
Recorded	06/05/23		
IDENTITY	PASS		PASS
	PASS		
Sample ID			
Tested	06/05/23		
Tester	MHUS		
Recorded	06/05/23		
EXPIRATION DATE	MM/DD/YY		06/30/25
	MM/DD/YYYY		
Sample ID			
Tested	06/05/23		
Tester	MHUS		
Recorded	06/05/23		



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SHELF LIFE OF PRODUCT	SHELF LIFE TIME	2 YEARS
Sample ID		
Tested 06/05/23		
Tester MHUS		
Recorded 06/05/23		
Actual Density	1.03295 GM/ML	1.03239 - 1.03351 1.03297
Sample ID		
Tested 06/05/23		
Tester MHUS		
Recorded 06/05/23		
SPECIFIC GRAVITY	1.035 SPEC GRAV	1.030 - 1.040 1.035
Sample ID		
Tested 06/05/23		
Tester MHUS		
Recorded 06/05/23		
Assay w/v HCL	7.29 W/V%	6.12 - 7.48 7.29
Sample ID		
Tested 06/05/23		
Tester MHUS		
Recorded 06/05/23		
Lot # 3060101		
Made 06/05/23		

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