



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 08/16/23			
Tester JENC			
Recorded 08/16/23			
SAMPLE COLLECTION & HANDLING PER LAB040	YES		YES
Sample ID			
Tested 08/16/23			
Tester JENC			
Recorded 08/16/23			
DATE OF SAMPLING FOR TEST PURPOSES	MM/DD/YYYY		08/16/23
Sample ID			
Tested 08/16/23			
Tester JENC			
Recorded 08/16/23			
AMBIENT TEMPERATURE DURING SAMPLING DEGC	25.0	10.0 - 35.0	22.2
Sample ID			
Tested 08/16/23			
Tester JENC			
Recorded 08/16/23			
DATE OF TESTING OF SAMPLE	MM/DD/YYYY		08/16/23
Sample ID			
Tested 08/16/23			
Tester JENC			
Recorded 08/16/23			
AMBIENT TEST TEMPERATURE DEGC	20.0	15.0 - 30.0	22.2
Sample ID			
Tested 08/16/23			
Tester JENC			
Recorded 08/16/23			
Actual Normality	2.0000	1.9990 - 2.0010	1.9993
	EQ/L		
Sample ID			
Tested 08/16/23			
Tester JENC			
Recorded 08/16/23			
QCSP5: STANDARDIZATION OF AQUEOUS ACIDS	YES		YES
	METHOD		
Sample ID			
Tested 08/16/23			
Tester JENC			
Recorded 08/16/23			



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N.I.S.T. Traceable to SRM 723 THAM	YES		YES
	YES		
Sample ID			
Tested	08/16/23		
Tester	JENC		
Recorded	08/16/23		
CERTIFIED TOTAL ORGANIC CARBON (PPM)	1.0	0.0 - 4.0	2.3
	PPM		
Sample ID			
Tested	08/16/23		
Tester	JENC		
Recorded	08/16/23		
APPEARANCE AND COLOR	CLEAR LIQUID APPEARANCE		PASS
Sample ID			
Tested	08/16/23		
Tester	JENC		
Recorded	08/16/23		
INSTRUMENTS USED DURING PREPARATION	INSTRUMENT		M25,T-245,BID02253,PIDM91
Sample ID			
Tested	08/16/23		
Tester	JENC		
Recorded	08/16/23		
Actual Color, APHA	10	0 - 10	7
	COLOR		
Sample ID			
Tested	08/16/23		
Tester	JENC		
Recorded	08/16/23		
Prepared with 36.5-38% ACS HCL	YES		YES
	YES		
Sample ID			
Tested	08/16/23		
Tester	JENC		
Recorded	08/16/23		
IDENTITY	PASS		PASS
	PASS		
Sample ID			
Tested	08/16/23		
Tester	JENC		
Recorded	08/16/23		
EXPIRATION DATE	MM/DD/YY		08/30/25
	MM/DD/YYYY		
Sample ID			
Tested	08/16/23		
Tester	JENC		
Recorded	08/16/23		



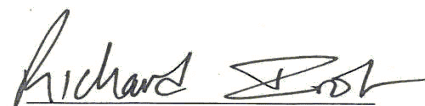
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SHELF LIFE OF PRODUCT	SHELF LIFE TIME	2 YEARS
Sample ID		
Tested 08/16/23		
Tester JENC		
Recorded 08/16/23		
Assay w/v HCL	7.29 W/V%	6.12 - 7.48 7.29
Sample ID		
Tested 08/16/23		
Tester JENC		
Recorded 08/16/23		
EXPIRATION DATE	MM/DD/YYYY MM/DD/YYYY	08/30/25
Sample ID		
Tested 08/16/23		
Tester JENC		
Recorded 08/16/23		
Lot #	3080916	
Made	08/16/23	

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