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Date: 04/30/21 at 9:05 AM

Aqua Solutions, Inc. 6913 Highway 225 Deer Park, TX, 77536 281/479-2569

Certificate of Analysis / QC Results

Customer PO #:

Packaged Product:

4190-20L

HYDROCHLORIC ACID 0.5 NORMAL (20LC)

lot# 1042885

Chemical Product:	4190			
	HYDROCHL	ORIC ACID 0.5 NORMAL		
Test		Target/UOM	Range	Result
N.I.S.T. Traceable to SRM 919		Yes		YES
		YES		
Sample ID				
Tested	04/29/21			
Tester	DHOL			
Recorded	04/29/21			
QCSP5: STANDARDIZA	ATION OF	YES		YES
AQUEOUS ACIDS		METHOD		
Sample ID				
Tested	04/29/21			
Tester	DHOL			
Recorded	04/29/21			
Actual Normality		0.5000	0.4995 - 0.5005	0.5003
		EQ/L	0.000	0.5005
Sample ID				
Tested	04/29/21			
Tester	DHOL			
Recorded	04/29/21			
PREPARED TO FORMI		YES		
FILE	DEATION ON	YES		YES
Sample ID		125		
Tested				
Tester	04/29/21			
Recorded	DHOL			
SAMPLE COLLECTION	04/29/21	V50		
PER LAB040	& HANDLING	YES		YES
		YES		
Sample ID				
Tested	04/29/21			
Tester	DHOL			
Recorded	04/29/21			
DATE OF SAMPLING F	OR TEST	MM/DD/YYYY		04/29/21
PURPOSES		MM/DD/YYYY		
Sample ID				
Tested	04/29/21			
Tester	DHOL			
Recorded	04/29/21			
AMBIENT TEMPERATU	RE DURING	25.0	10.0 - 35.0	20.0
SAMPLING DEGC		DEG C		20.0
Sample ID				
Tested	04/29/21			
Tester	DHOL			
Recorded	04/29/21			



Aqua Solutions, Inc. Ph: 281-479-2569 Fax: 281-479-2790 P.O. Box 70 Deer Park,TX 77536

Website: www.aquasolutions.org

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Customer PO #:

DATE OF TESTING OF SAMPLE		MM/DD/YYYY MM/DD/YYYY		04/29/21
Sample ID				
Tested	04/29/21			
Tester	DHOL			
Recorded	04/29/21			
		20.0	45.000	
AMBIENT TEST TEMPERATURE		20.0	15.0 - 30.0	21.1
DEG C		DEG C		
Sample ID				
Tested	04/29/21			
Tester	DHOL			
Recorded	04/29/21			
APPEARANCE AND COLOR		CLEAR LIQUID		PASS
		APPEARANCE		
Sample ID				
Tested	04/29/21			
Tester	DHOL			
Recorded				
	04/29/21			
INSTRUMENTS USED DURING		INSTRUMENT		T-230,GC,T-211,M55,BURET:0
PREPARATION				2185
Sample ID				
Tested	04/29/21			
Tester	DHOL			
Recorded	04/29/21			
EXPIRATION DATE		MM/DD/YY		05/30/23
		MM/DD/YYYY		00/00/20
Sample ID		141141111111111111111111111111111111111		
Tested	04/29/21			
Tester				
	DHOL			
Recorded	04/29/21			
Actual Density		1.00720	1.00710 - 1.00732	1.00726
		GM/ML		
Sample ID				
Tested	04/29/21			
Tester	DHOL			
Recorded	04/29/21			
SHELF LIFE OF PRODUCT		2 YEARS		2 YEARS
		TIME		2 TEARS
Sample ID				
Tested	04/20/24			
The state of the s	04/29/21			
	DHOL			
Tester Recorded	04/29/21			

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

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