

Page: 1

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 # 1033134

DHOL

04/05/21

Recorded

Chemical Product: 419				
HYDROCHLORIC ACID 0.5 NORMAL NIST TRACEABLE SOLUTION				
1031	Target/UOM	Range		
N.I.S.T. Traceable to SRM 919	Yes	Nange	Result	
	YES		YES	
Sample ID				
Tested 04/05/21				
Tester DHOL				
Recorded 04/05/21				
QCSP5: STANDARDIZATION OF	YES			
AQUEOUS ACIDS	METHOD		YES	
Sample ID	WETHOB			
Tested 04/05/21				
Tester DHOL				
Recorded 04/05/21				
Actual Normality				
	0.5000	0.4995 - 0.5005	0.4998	
Sample ID	EQ/L		0.4990	
_ 01100121				
-1.02				
Recorded 04/05/21				
PREPARED TO FORMULATION O	N YES			
	YES		YES	
Sample ID				
Tested 04/05/21				
Tester DHOL				
Recorded 04/05/21				
SAMPLE COLLECTION & HANDLII	NG YES			
PER LAB040	YES		YES	
Sample ID				
Tested 04/05/21				
Tester DHOL				
Recorded 04/05/21				
ATE OF SAMPLING FOR TEST	MM/DDAGG			
URPOSES	MM/DD/YYYY		04/05/21	
Sample ID	MM/DD/YYYY		2 1100/21	
Table 1				
Recorded 04/05/21 MBIENT TEMPERATURE DURING				
AMPLING DEGC		10.0 - 35.0	00.0	
	DEG C		20.0	
Sample ID				
Tested 04/05/21				
Tester Duoi				



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

Website: www.aquasolutions.org

Page: 2

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 # ·

DATE OF TENTING OF T		stomer PO # :	
DATE OF TESTING OF SAMPLI			04/05/04
	MM/DD/YYYY		04/05/21
Sample ID			
Tested 04/05/			
Tester DHOL			
Recorded 04/05/2	21		
AMBIENT TEST TEMPERATURI	20.0	15.0 - 30.0	
DEG C	DEG C	75.0 - 50.0	17.0
Sample ID			
Tested 04/05/2	21		
Tester DHOL			
Recorded 04/05/2	21		
APPEARANCE AND COLOR	CLEAR LIQUID		
	APPEARANCE		PASS
Sample ID	UVUIOL		
Tested 04/05/2	1		
Tester DHOL			
Recorded 04/05/2	1		
INSTRUMENTS USED DURING			
PREPARATION	INSTRUMENT		VF1-72,GC,T12,M55,BID0218
Sample ID			-,, 1 - 2, 1100, 11100, 11
Tested 04/05/2	4		
Tester DHOL			
Recorded 04/05/2			
EXPIRATION DATE			
THE THE PARTY OF T	MM/DD/YY		04/30/23
Samuel ID	MM/DD/YYYY		04/30/23
Sample ID Tested 04/05/22			
O II OUI L			
Recorded 04/05/21 Actual Density			
actual Delisity	1.00720	1.00710 - 1.00732	
	GM/ML	1.007.02	1.00731
Sample ID			
Tested 04/05/21			
Tester DHOL			
Recorded 04/05/21			
HELF LIFE OF PRODUCT	2 YEARS		
	TIME		2 YEARS
Sample ID			
Tested 04/05/21			
Tester DHOL			
Recorded 04/05/21			
Made 04/05/21			



Page: 3

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 #:

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