



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

Packaged Product: 4191			
HYDROCHLORIC ACID 0.5 NORMAL IN IPA			
Test	Target/UOM	Range	Result
PREPARED TO FORMULATION ON FILE	YES		YES
Sample ID			
Tested 05/23/23			
Tester JENC			
Recorded 05/23/23			
SAMPLE COLLECTION & HANDLING PER LAB040	YES		YES
Sample ID			
Tested 05/23/23			
Tester JENC			
Recorded 05/23/23			
DATE OF SAMPLING FOR TEST PURPOSES	MM/DD/YYYY		05/23/23
Sample ID			
Tested 05/23/23			
Tester JENC			
Recorded 05/23/23			
AMBIENT TEMPERATURE DURING SAMPLING DEGC	25.0	10.0 - 35.0	21.8
Sample ID			
Tested 05/23/23			
Tester JENC			
Recorded 05/23/23			
DATE OF TESTING OF SAMPLE	MM/DD/YYYY		05/23/23
Sample ID			
Tested 05/23/23			
Tester JENC			
Recorded 05/23/23			
AMBIENT TEST TEMPERATURE DEGC	20.0	15.0 - 30.0	21.8
Sample ID			
Tested 05/23/23			
Tester JENC			
Recorded 05/23/23			
N.I.S.T. Traceable to SRM 723	YES		YES
Sample ID			
Tested 05/23/23			
Tester JENC			
Recorded 05/23/23			
QCSP5: STANDARDIZATION OF AQUEOUS ACIDS	YES		YES
Sample ID			
Tested 05/23/23			
Tester JENC			
Recorded 05/23/23			



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Actual Normality	0.5000 EQ/L	0.4995 - 0.5005	0.5002
Sample ID			
Tested	05/23/23		
Tester	JENC		
Recorded	05/23/23		
APPEARANCE AND COLOR	CLEAR LIQUID APPEARANCE		PASS
Sample ID			
Tested	05/23/23		
Tester	JENC		
Recorded	05/23/23		
INSTRUMENTS USED DURING PREPARATION	INSTRUMENT		M112,T42
Sample ID			
Tested	05/23/23		
Tester	JENC		
Recorded	05/23/23		
Actual Density	0.81013 GM/ML	0.80934 - 0.81092	0.81043
Sample ID			
Tested	05/23/23		
Tester	JENC		
Recorded	05/23/23		
EXPIRATION DATE	MM/DD/YY MM/DD/YYYY		05/30/24
Sample ID			
Tested	05/23/23		
Tester	JENC		
Recorded	05/23/23		
Lot #	3051935		
Made	05/23/23		

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