



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	YES		YES
FILE	YES		
Sample ID			
Tested 06/28/24			
Tester ENOR			
Recorded 06/28/24			
SAMPLE COLLECTION & HANDLING	YES		YES
PER LAB040	YES		
Sample ID			
Tested 06/28/24			
Tester ENOR			
Recorded 06/28/24			
DATE OF SAMPLING FOR TEST	MM/DD/YYYY		06/28/2024
PURPOSES	MM/DD/YYYY		
Sample ID			
Tested 06/28/24			
Tester ENOR			
Recorded 06/28/24			
AMBIENT TEMPERATURE DURING	25.0	10.0 - 35.0	19.1
SAMPLING DEGC	DEG C		
Sample ID			
Tested 06/28/24			
Tester ENOR			
Recorded 06/28/24			
DATE OF TESTING OF SAMPLE	MM/DD/YYYY		06/28/2024
	MM/DD/YYYY		
Sample ID			
Tested 06/28/24			
Tester ENOR			
Recorded 06/28/24			
AMBIENT TEST TEMPERATURE	20.0	15.0 - 30.0	20.0
DEG C	DEG C		
Sample ID			
Tested 06/28/24			
Tester ENOR			
Recorded 06/28/24			
N.I.S.T. Traceable to SRM 723	YES		YES
	YES		
Sample ID			
Tested 06/28/24			
Tester ENOR			
Recorded 06/28/24			
QCSP5: STANDARDIZATION OF	YES		YES
AQUEOUS ACIDS	METHOD		
Sample ID			
Tested 06/28/24			
Tester ENOR			
Recorded 06/28/24			



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Actual Normality	0.5000 EQ/L	0.4995 - 0.5005	0.4996
Sample ID			
Tested	06/28/24		
Tester	ENOR		
Recorded	06/28/24		
APPEARANCE AND COLOR	CLEAR LIQUID APPEARANCE		PASS
Sample ID			
Tested	06/28/24		
Tester	ENOR		
Recorded	06/28/24		
INSTRUMENTS USED DURING PREPARATION	INSTRUMENT		M112,T-190,M55,BURET:0844 6
Sample ID			
Tested	06/28/24		
Tester	ENOR		
Recorded	06/28/24		
Actual Density	0.81013 GM/ML	0.80934 - 0.81092	0.81006
Sample ID			
Tested	06/28/24		
Tester	ENOR		
Recorded	06/28/24		
EXPIRATION DATE	MM/DD/YY MM/DD/YYYY		06/30/25
Sample ID			
Tested	06/28/24		
Tester	ENOR		
Recorded	06/28/24		
Lot #	4062435		
Made	06/28/24		

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