



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	YES		
Tested 02/01/24			
Tester ENOR			
Recorded 02/01/24			
SAMPLE COLLECTION & HANDLING PER LAB040	YES		YES
Sample ID	YES		
Tested 02/01/24			
Tester ENOR			
Recorded 02/01/24			
DATE OF SAMPLING FOR TEST PURPOSES	MM/DD/YYYY		02/01/2024
Sample ID	MM/DD/YYYY		
Tested 02/01/24			
Tester ENOR			
Recorded 02/01/24			
AMBIENT TEMPERATURE DURING SAMPLING DEGC	25.0	10.0 - 35.0	20.6
Sample ID	DEG C		
Tested 02/01/24			
Tester ENOR			
Recorded 02/01/24			
DATE OF TESTING OF SAMPLE	MM/DD/YYYY		02/01/2024
Sample ID	MM/DD/YYYY		
Tested 02/01/24			
Tester ENOR			
Recorded 02/01/24			
AMBIENT TEST TEMPERATURE DEG C	20.0	15.0 - 30.0	20.0
Sample ID	DEG C		
Tested 02/01/24			
Tester ENOR			
Recorded 02/01/24			
N.I.S.T. Traceable to SRM 723	YES		YES
Sample ID	YES		
Tested 02/01/24			
Tester ENOR			
Recorded 02/01/24			
QCSP5: STANDARDIZATION OF AQUEOUS ACIDS	YES		YES
Sample ID	METHOD		
Tested 02/01/24			
Tester ENOR			
Recorded 02/01/24			



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Actual Normality	0.5000 EQ/L	0.4995 - 0.5005	0.5002
Sample ID			
Tested	02/01/24		
Tester	ENOR		
Recorded	02/01/24		
APPEARANCE AND COLOR	CLEAR LIQUID APPEARANCE		PASS
Sample ID			
Tested	02/01/24		
Tester	ENOR		
Recorded	02/01/24		
INSTRUMENTS USED DURING PREPARATION	INSTRUMENT		M112,T-21,M55,BID08251,PID M91
Sample ID			
Tested	02/01/24		
Tester	ENOR		
Recorded	02/01/24		
Actual Density	0.81013 GM/ML	0.80934 - 0.81092	0.81025
Sample ID			
Tested	02/01/24		
Tester	ENOR		
Recorded	02/01/24		
EXPIRATION DATE	MM/DD/YY MM/DD/YYYY		02/28/25
Sample ID			
Tested	02/01/24		
Tester	ENOR		
Recorded	02/01/24		
Lot #	4013138		
Made	02/01/24		

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