



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

Packaged Product: 4112			
HYDROCHLORIC ACID 0.02 NORMAL IN METHANOL			
Test	Target/UOM	Range	Result
Actual Normality	0.0200	0.0195 - 0.0205	0.0199
	EQ/L		
Sample ID			
Tested	11/11/24		
Tester	JENC		
Recorded	11/11/24		
SAMPLE COLLECTION & HANDLING	YES		YES
PER LAB040	YES		
Sample ID			
Tested	11/11/24		
Tester	JENC		
Recorded	11/11/24		
DATE OF SAMPLING FOR TEST	MM/DD/YYYY		11/11/2024
PURPOSES	MM/DD/YYYY		
Sample ID			
Tested	11/11/24		
Tester	JENC		
Recorded	11/11/24		
AMBIENT TEMPERATURE DURING	25.0	10.0 - 35.0	20.3
SAMPLING DEGC	DEG C		
Sample ID			
Tested	11/11/24		
Tester	JENC		
Recorded	11/11/24		
DATE OF TESTING OF SAMPLE	MM/DD/YYYY		11/11/2024
	MM/DD/YYYY		
Sample ID			
Tested	11/11/24		
Tester	JENC		
Recorded	11/11/24		
AMBIENT TEST TEMPERATURE	20.0	10.0 - 30.0	20.3
DEG C	DEG C		
Sample ID			
Tested	11/11/24		
Tester	JENC		
Recorded	11/11/24		
QCSP5: STANDARDIZATION OF	YES		YES
AQUEOUS ACIDS	METHOD		
Sample ID			
Tested	11/11/24		
Tester	JENC		
Recorded	11/11/24		
Actual Density	0.79274	0.79221 - 0.79328	0.79314
	G/ML		
Sample ID			
Tested	11/11/24		
Tester	JENC		
Recorded	11/11/24		



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N.I.S.T. Traceable to SRM 723	Yes YES	YES
Sample ID		
Tested	11/11/24	
Tester	JENC	
Recorded	11/11/24	
PREPARED TO FORMULATION ON FILE	YES YES	YES
Sample ID		
Tested	11/11/24	
Tester	JENC	
Recorded	11/11/24	
APPEARANCE AND COLOR	CLEAR LIQUID APPEARANCE	PASS
Sample ID		
Tested	11/11/24	
Tester	JENC	
Recorded	11/11/24	
INSTRUMENTS USED DURING PREPARATION	INSTRUMENT	M115,EF2-DA
Sample ID		
Tested	11/11/24	
Tester	JENC	
Recorded	11/11/24	
EXPIRATION DATE	MM/DD/YY MM/DD/YYYY	02/28/25
Sample ID		
Tested	11/11/24	
Tester	JENC	
Recorded	11/11/24	
SHELF LIFE OF PRODUCT	3 MONTHS TIME	3 MONTHS
Sample ID		
Tested	11/11/24	
Tester	JENC	
Recorded	11/11/24	
Lot #	4110111	
Made	11/11/24	

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.



Aqua Solutions, Inc.
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P.O. Box 70
Deer Park, TX 77536
Website: www.aquasolutions.org

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Date: 11/11/24 at 2:30 PM

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Unless otherwise agreed to, all chemicals used in the preparation of this product are Reagent ACS grade.

Quality Manager