



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

Packaged Product: 4131			
HYDROCHLORIC ACID 0.1 NORMAL IN IPA NIST TRACEABLE SOLUTION			
Test	Target/UOM	Range	Result
PREPARED TO FORMULATION ON FILE	YES		YES
Sample ID	YES		
Tested 11/14/24			
Tester RIRO			
Recorded 11/14/24			
SAMPLE COLLECTION & HANDLING PER LAB040	YES		YES
Sample ID	YES		
Tested 11/14/24			
Tester RIRO			
Recorded 11/14/24			
DATE OF SAMPLING FOR TEST PURPOSES	MM/DD/YYYY		11/14/2024
Sample ID	MM/DD/YYYY		
Tested 11/14/24			
Tester RIRO			
Recorded 11/14/24			
AMBIENT TEMPERATURE DURING SAMPLING DEGC	25.0	10.0 - 35.0	24.0
Sample ID	DEG C		
Tested 11/14/24			
Tester RIRO			
Recorded 11/14/24			
DATE OF TESTING OF SAMPLE	MM/DD/YYYY		11/14/2024
Sample ID	MM/DD/YYYY		
Tested 11/14/24			
Tester RIRO			
Recorded 11/14/24			
AMBIENT TEST TEMPERATURE DEG C	20.0	15.0 - 30.0	19.0
Sample ID	DEG C		
Tested 11/14/24			
Tester RIRO			
Recorded 11/14/24			
Actual Normality	0.1000	0.0995 - 0.1005	0.1000
Sample ID	EQ/L		
Tested 11/14/24			
Tester RIRO			
Recorded 11/14/24			
QCSP5: STANDARDIZATION OF AQUEOUS ACIDS	YES		YES
Sample ID	METHOD		
Tested 11/14/24			
Tester RIRO			
Recorded 11/14/24			



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Actual Density	0.79100 G/ML	0.79012 - 0.79188	0.79074
Sample ID			
Tested	11/14/24		
Tester	RIRO		
Recorded	11/14/24		
N.I.S.T. Traceable to SRM 723	YES YES		YES
Sample ID			
Tested	11/14/24		
Tester	RIRO		
Recorded	11/14/24		
APPEARANCE AND COLOR	CLEAR LIQUID APPEARANCE		PASS
Sample ID			
Tested	11/14/24		
Tester	RIRO		
Recorded	11/14/24		
INSTRUMENTS USED DURING PREPARATION	INSTRUMENT		GC,T-38,BID-00488,PID-MK91
Sample ID			
Tested	11/14/24		
Tester	RIRO		
Recorded	11/14/24		
EXPIRATION DATE	MM/DD/YY MM/DD/YYYY		05/30/25
Sample ID			
Tested	11/14/24		
Tester	RIRO		
Recorded	11/14/24		
SHELF LIFE OF PRODUCT	6 MONTHS TIME		6 MONTHS
Sample ID			
Tested	11/14/24		
Tester	RIRO		
Recorded	11/14/24		
Lot #	4111403		
Made	11/14/24		

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.
Ph: 281-479-2569
Fax: 281-479-2790
P.O. Box 70
Deer Park, TX 77536
Website: www.aquasolutions.org

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Date: 11/14/24 at 5:21 PM

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

Quality Manager