

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	YES		YES
FILE	YES		
Sample ID			
Tested 02/19/25			
Tester JRIO			
Recorded 02/19/25			
SAMPLE COLLECTION & HANDLING	YES		YES
PER LAB040	YES		
Sample ID			
Tested 02/19/25			
Tester JRIO			
Recorded 02/19/25			
DATE OF SAMPLING FOR TEST	MM/DD/YYYY		02/19/2025
PURPOSES	MM/DD/YYYY		
Sample ID			
Tested 02/19/25			
Tester JRIO			
Recorded 02/19/25			
AMBIENT TEMPERATURE DURING	25.0	10.0 - 35.0	20.0
SAMPLING DEGC	DEG C		
Sample ID			
Tested 02/19/25			
Tester JRIO			
Recorded 02/19/25			
DATE OF TESTING OF SAMPLE	MM/DD/YYYY		02/19/2025
	MM/DD/YYYY		
Sample ID			
Tested 02/19/25			
Tester JRIO			
Recorded 02/19/25			
AMBIENT TEST TEMPERATURE	20.0	15.0 - 30.0	20.0
DEG C	DEG C		
Sample ID			
Tested 02/19/25			
Tester JRIO			
Recorded 02/19/25			
Actual Normality	0.1000	0.0995 - 0.1005	0.0995
	EQ/L		
Sample ID			
Tested 02/19/25			
Tester JRIO			
Recorded 02/19/25			
QCSP5: STANDARDIZATION OF	YES		YES
AQUEOUS ACIDS	METHOD		
Sample ID			
Tested 02/19/25			
Tester JRIO			
Recorded 02/19/25			

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Actual Density	0.79100 G/ML	0.79012 - 0.79188	0.79089
Sample ID			
Tested	02/19/25		
Tester	JRIO		
Recorded	02/19/25		
N.I.S.T. Traceable to SRM 723	YES YES		YES
Sample ID			
Tested	02/19/25		
Tester	JRIO		
Recorded	02/19/25		
APPEARANCE AND COLOR	CLEAR LIQUID APPEARANCE		PASS
Sample ID			
Tested	02/19/25		
Tester	JRIO		
Recorded	02/19/25		
INSTRUMENTS USED DURING PREPARATION	INSTRUMENT		GC,T166
Sample ID			
Tested	02/19/25		
Tester	JRIO		
Recorded	02/19/25		
EXPIRATION DATE	MM/DD/YY MM/DD/YYYY		08/30/25
Sample ID			
Tested	02/19/25		
Tester	JRIO		
Recorded	02/19/25		
SHELF LIFE OF PRODUCT	6 MONTHS TIME		6 MONTHS
Sample ID			
Tested	02/19/25		
Tester	JRIO		
Recorded	02/19/25		
Lot #	5020735		
Made	02/19/25		

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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Deer Park, TX 77536
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Date: 02/19/25 at 3:18 PM

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

Quality Manager