

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

Packaged Product: 4137			
HYDROCHLORIC ACID 0.1 NORMAL IN IPA (ASTM D 664)			
Test	Target/UOM	Range	Result
PREPARED TO FORMULATION ON	YES		YES
FILE	YES		
Sample ID			
Tested 03/11/25			
Tester JENC			
Recorded 03/11/25			
SAMPLE COLLECTION & HANDLING	YES		YES
PER LAB040	YES		
Sample ID			
Tested 03/11/25			
Tester JENC			
Recorded 03/11/25			
DATE OF SAMPLING FOR TEST	MM/DD/YYYY		03/11/2025
PURPOSES	MM/DD/YYYY		
Sample ID			
Tested 03/11/25			
Tester JENC			
Recorded 03/11/25			
AMBIENT TEMPERATURE DURING	25.0	10.0 - 35.0	20.0
SAMPLING DEGC	DEG C		
Sample ID			
Tested 03/11/25			
Tester JENC			
Recorded 03/11/25			
DATE OF TESTING OF SAMPLE	MM/DD/YYYY		03/11/2025
	MM/DD/YYYY		
Sample ID			
Tested 03/11/25			
Tester JENC			
Recorded 03/11/25			
AMBIENT TEST TEMPERATURE	20.0	15.0 - 30.0	20.0
DEG C	DEG C		
Sample ID			
Tested 03/11/25			
Tester JENC			
Recorded 03/11/25			
NORMALITY TO 4 DEC PLACES	0.1000	0.0995 - 0.1005	0.0998
	EQUIV/LITER		
Sample ID			
Tested 03/11/25			
Tester JENC			
Recorded 03/11/25			
PREPARED TO ASTM D664	YES		YES
	YES		
Sample ID			
Tested 03/11/25			
Tester JENC			
Recorded 03/11/25			

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APPEARANCE AND COLOR	CLEAR LIQUID APPEARANCE	PASS
Sample ID		
Tested 03/11/25		
Tester JENC		
Recorded 03/11/25		
INSTRUMENTS USED DURING PREPARATION	INSTRUMENT	GC,VF4-N32,P36,BURET02259
Sample ID		
Tested 03/11/25		
Tester JENC		
Recorded 03/11/25		
Actual Density	0.79119 G/ML	0.79057 - 0.79181 0.79090
Sample ID		
Tested 03/11/25		
Tester JENC		
Recorded 03/11/25		
EXPIRATION DATE	MM/DD/YY MM/DD/YYYY	09/30/25
Sample ID		
Tested 03/11/25		
Tester JENC		
Recorded 03/11/25		
SHELF LIFE OF PRODUCT	SHELF LIFE TIME	6 MONTHS
Sample ID		
Tested 03/11/25		
Tester JENC		
Recorded 03/11/25		
Lot #	5030620	
Made	03/11/25	

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.

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


Quality Manager