

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

Packaged Product: 4175 HYDROCHLORIC ACID 0.3 NORMAL			
Test	Target/UOM	Range	Result
PREPARED TO FORMULATION ON	YES		YES
FILE	YES		
Sample ID			
Tested 11/02/23			
Tester AFRE			
Recorded 11/02/23			
SAMPLE COLLECTION & HANDLING	YES		YES
PER LAB040	YES		
Sample ID			
Tested 11/02/23			
Tester AFRE			
Recorded 11/02/23			
DATE OF SAMPLING FOR TEST	MM/DD/YYYY		11/02/2023
PURPOSES	MM/DD/YYYY		
Sample ID			
Tested 11/02/23			
Tester AFRE			
Recorded 11/02/23			
AMBIENT TEMPERATURE DURING	25.0	10.0 - 35.0	20.0
SAMPLING DEGC	DEG C		
Sample ID			
Tested 11/02/23			
Tester AFRE			
Recorded 11/02/23			
DATE OF TESTING OF SAMPLE	MM/DD/YYYY		11/02/2023
	MM/DD/YYYY		
Sample ID			
Tested 11/02/23			
Tester AFRE			
Recorded 11/02/23			
AMBIENT TEST TEMPERATURE	20.0	15.0 - 30.0	20.0
DEG C	DEG C		
Sample ID			
Tested 11/02/23			
Tester AFRE			
Recorded 11/02/23			
Actual Normality	0.3000	0.2995 - 0.3005	0.3003
	EQ/L		
Sample ID			
Tested 11/02/23			
Tester AFRE			
Recorded 11/02/23			
QCSP5: STANDARDIZATION OF	YES		YES
AQUEOUS ACIDS	METHOD		
Sample ID			
Tested 11/02/23			
Tester AFRE			
Recorded 11/02/23			

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N.I.S.T. Traceable to SRM 723 THAM		YES	YES
		YES	
Sample ID			
Tested 11/02/23			
Tester AFRE			
Recorded 11/02/23			
Actual Density	1.00367	1.00350 - 1.00383	1.00354
	GM/ML		
Sample ID			
Tested 11/02/23			
Tester AFRE			
Recorded 11/02/23			
APPEARANCE AND COLOR	CLEAR LIQUID		PASS
	APPEARANCE		
Sample ID			
Tested 11/02/23			
Tester AFRE			
Recorded 11/02/23			
INSTRUMENTS USED DURING PREPARATION	INSTRUMENT	M113,T-246,M55,BID00488,PID M91	
Sample ID			
Tested 11/02/23			
Tester AFRE			
Recorded 11/02/23			
EXPIRATION DATE	MM/DD/YY		11/30/25
	MM/DD/YYYY		
Sample ID			
Tested 11/02/23			
Tester AFRE			
Recorded 11/02/23			
Lot #	3103063		
Made	11/02/23		

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