

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

Packaged Product: 4200 HYDROCHLORIC ACID 0.5167 NORMAL			
Test	Target/UOM	Range	Result
PREPARED TO FORMULATION ON	YES		YES
FILE	YES		
Sample ID			
Tested 03/05/24			
Tester AFRE			
Recorded 03/05/24			
SAMPLE COLLECTION & HANDLING	YES		YES
PER LAB040	YES		
Sample ID			
Tested 03/05/24			
Tester AFRE			
Recorded 03/05/24			
DATE OF SAMPLING FOR TEST	MM/DD/YYYY		03/05/2024
PURPOSES	MM/DD/YYYY		
Sample ID			
Tested 03/05/24			
Tester AFRE			
Recorded 03/05/24			
AMBIENT TEMPERATURE DURING	25.0	10.0 - 35.0	20.0
SAMPLING DEGC	DEG C		
Sample ID			
Tested 03/05/24			
Tester AFRE			
Recorded 03/05/24			
DATE OF TESTING OF SAMPLE	MM/DD/YYYY		03/05/2024
	MM/DD/YYYY		
Sample ID			
Tested 03/05/24			
Tester AFRE			
Recorded 03/05/24			
AMBIENT TEST TEMPERATURE	20.0	15.0 - 30.0	20.0
DEG C	DEG C		
Sample ID			
Tested 03/05/24			
Tester AFRE			
Recorded 03/05/24			
Actual Normality	0.5167	0.5162 - 0.5172	0.5167
	EQ/L		
Sample ID			
Tested 03/05/24			
Tester AFRE			
Recorded 03/05/24			
QCSP5: STANDARDIZATION OF	YES		YES
AQUEOUS ACIDS	METHOD		
Sample ID			
Tested 03/05/24			
Tester AFRE			
Recorded 03/05/24			

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N.I.S.T. Traceable to SRM 723	YES YES	YES
Sample ID		
Tested 03/05/24		
Tester AFRE		
Recorded 03/05/24		
APPEARANCE AND COLOR	CLEAR LIQUID APPEARANCE	PASS
Sample ID		
Tested 03/05/24		
Tester AFRE		
Recorded 03/05/24		
INSTRUMENTS USED DURING PREPARATION	INSTRUMENT	M113,T-23,M55,BID00488,PID M91
Sample ID		
Tested 03/05/24		
Tester AFRE		
Recorded 03/05/24		
Actual Density	1.00752 GM/ML	1.00715 - 1.00790 1.00766
Sample ID		
Tested 03/05/24		
Tester AFRE		
Recorded 03/05/24		
EXPIRATION DATE	MM/DD/YYYY MM/DD/YYYY	09/30/2025
Sample ID		
Tested 03/05/24		
Tester AFRE		
Recorded 03/05/24		
Lot # 4030521		
Made 03/05/24		

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.

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


Quality Manager