



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

Packaged Product: 4353			
HYDROCHLORIC ACID 1.1 NORMAL			
Test	Target/UOM	Range	Result
Actual Normality	1.1000	1.0995 - 1.1008	1.1000
	EQ/L		
Sample ID			
Tested	01/25/25		
Tester	LWIL		
Recorded	01/25/25		
QCSP5: STANDARDIZATION OF AQUEOUS ACIDS	YES		YES
	METHOD		
Sample ID			
Tested	01/25/25		
Tester	LWIL		
Recorded	01/25/25		
N.I.S.T. Traceable to SRM 84 (KHP)	Yes		YES
	YES		
Sample ID			
Tested	01/25/25		
Tester	LWIL		
Recorded	01/25/25		
PREPARED TO FORMULATION ON FILE	YES		YES
	YES		
Sample ID			
Tested	01/25/25		
Tester	LWIL		
Recorded	01/25/25		
SAMPLE COLLECTION & HANDLING PER LAB040	YES		YES
	YES		
Sample ID			
Tested	01/25/25		
Tester	LWIL		
Recorded	01/25/25		
DATE OF SAMPLING FOR TEST PURPOSES	MM/DD/YYYY		01/25/2025
	MM/DD/YYYY		
Sample ID			
Tested	01/25/25		
Tester	LWIL		
Recorded	01/25/25		
AMBIENT TEMPERATURE DURING SAMPLING DEGC	25.0	10.0 - 35.0	19.3
	DEG C		
Sample ID			
Tested	01/25/25		
Tester	LWIL		
Recorded	01/25/25		
DATE OF TESTING OF SAMPLE	MM/DD/YYYY		01/25/2025
	MM/DD/YYYY		
Sample ID			
Tested	01/25/25		
Tester	LWIL		
Recorded	01/25/25		



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AMBIENT TEST TEMPERATURE	20.0	15.0 - 30.0	19.3
DEG C	DEG C		
Sample ID			
Tested	01/25/25		
Tester	LWIL		
Recorded	01/25/25		
APPEARANCE AND COLOR	CLEAR LIQUID		PASS
	APPEARANCE		
Sample ID			
Tested	01/25/25		
Tester	LWIL		
Recorded	01/25/25		
Actual Density	1.01765	1.01758 - 1.01772	1.01770
	G/ML		
Sample ID			
Tested	01/25/25		
Tester	LWIL		
Recorded	01/25/25		
INSTRUMENTS USED DURING PREPARATION	INSTRUMENT		M55,M100,VF12-2
Sample ID			
Tested	01/25/25		
Tester	LWIL		
Recorded	01/25/25		
EXPIRATION DATE	MM/DD/YYYY		01/30/2027
	MM/DD/YYYY		
Sample ID			
Tested	01/25/25		
Tester	LWIL		
Recorded	01/25/25		
Lot #	5011091		
Made	01/25/25		

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