

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

Packaged Product: 4355 HYDROCHLORIC ACID 2.0 NORMAL			
Test	Target/UOM	Range	Result
PREPARED TO FORMULATION ON	YES		YES
FILE	YES		
Sample ID			
Tested 02/24/25			
Tester CCOA			
Recorded 02/24/25			
SAMPLE COLLECTION & HANDLING	YES		YES
PER LAB040	YES		
Sample ID			
Tested 02/24/25			
Tester CCOA			
Recorded 02/24/25			
DATE OF SAMPLING FOR TEST	MM/DD/YYYY		02/22/2025
PURPOSES	MM/DD/YYYY		
Sample ID			
Tested 02/24/25			
Tester CCOA			
Recorded 02/24/25			
AMBIENT TEMPERATURE DURING	25.0	10.0 - 35.0	8.8
SAMPLING DEGC	DEG C		
Sample ID			
Tested 02/24/25			
Tester CCOA			
Recorded 02/24/25			
DATE OF TESTING OF SAMPLE	MM/DD/YYYY		02/22/2025
	MM/DD/YYYY		
Sample ID			
Tested 02/24/25			
Tester CCOA			
Recorded 02/24/25			
AMBIENT TEST TEMPERATURE	20.0	15.0 - 30.0	20.1
DEG C	DEG C		
Sample ID			
Tested 02/24/25			
Tester CCOA			
Recorded 02/24/25			
Actual Normality	2.0000	1.9990 - 2.0010	2.0004
	EQ/L		
Sample ID			
Tested 02/24/25			
Tester CCOA			
Recorded 02/24/25			
QCSP5: STANDARDIZATION OF	YES		YES
AQUEOUS ACIDS	METHOD		
Sample ID			
Tested 02/24/25			
Tester CCOA			
Recorded 02/24/25			

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N.I.S.T. Traceable to SRM 723 THAM

YES

YES

YES

Sample ID

Tested 02/24/25

Tester CCOA

Recorded 02/24/25

**CERTIFIED TOTAL ORGANIC
CARBON (PPM)**

1.0

0.0 - 4.0

2.5

PPM

Sample ID

Tested 02/24/25

Tester CCOA

Recorded 02/24/25

APPEARANCE AND COLOR

CLEAR LIQUID

PASS

APPEARANCE

Sample ID

Tested 02/24/25

Tester CCOA

Recorded 02/24/25

**INSTRUMENTS USED DURING
PREPARATION**

INSTRUMENT

VF3-J10,GC,T579.289S,M55

Sample ID

Tested 02/24/25

Tester CCOA

Recorded 02/24/25

Actual Color, APHA

10

0 - 10

0

COLOR

Sample ID

Tested 02/24/25

Tester CCOA

Recorded 02/24/25

Prepared with 36.5-38% ACS HCL

YES

YES

YES

Sample ID

Tested 02/24/25

Tester CCOA

Recorded 02/24/25

IDENTITY

PASS

PASS

PASS

Sample ID

Tested 02/24/25

Tester CCOA

Recorded 02/24/25

EXPIRATION DATE

MM/DD/YY

02/28/27

MM/DD/YYYY

Sample ID

Tested 02/24/25

Tester CCOA

Recorded 02/24/25

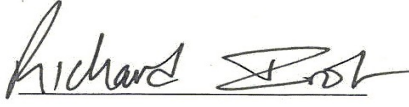
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SHELF LIFE OF PRODUCT		SHELF LIFE	2 YEARS
		TIME	
Sample ID			
Tested	02/24/25		
Tester	CCOA		
Recorded	02/24/25		
Actual Density			
	1.03294	1.03243 - 1.03345	1.03298
	G/ML		
Sample ID			
Tested	02/24/25		
Tester	CCOA		
Recorded	02/24/25		
SPECIFIC GRAVITY			
	1.035	1.030 - 1.040	1.035
	SPEC GRAV		
Sample ID			
Tested	02/24/25		
Tester	CCOA		
Recorded	02/24/25		
Assay w/v HCL			
	7.29	6.12 - 7.48	7.29
	W/V%		
Sample ID			
Tested	02/24/25		
Tester	CCOA		
Recorded	02/24/25		
Lot #	5020736		
Made	02/24/25		

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