



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

<b>Packaged Product:</b> 4355			
HYDROCHLORIC ACID 2.0 NORMAL			
Test	Target/UOM	Range	Result
<b>PREPARED TO FORMULATION ON FILE</b>	YES		YES
Sample ID			
Tested 05/16/24			
Tester DTRA			
Recorded 05/16/24			
<b>SAMPLE COLLECTION &amp; HANDLING PER LAB040</b>	YES		YES
Sample ID			
Tested 05/16/24			
Tester DTRA			
Recorded 05/16/24			
<b>DATE OF SAMPLING FOR TEST PURPOSES</b>	MM/DD/YYYY		05/16/2024
Sample ID			
Tested 05/16/24			
Tester DTRA			
Recorded 05/16/24			
<b>AMBIENT TEMPERATURE DURING SAMPLING DEGC</b>	25.0	10.0 - 35.0	21.0
Sample ID			
Tested 05/16/24			
Tester DTRA			
Recorded 05/16/24			
<b>DATE OF TESTING OF SAMPLE</b>	MM/DD/YYYY		05/16/2024
Sample ID			
Tested 05/16/24			
Tester DTRA			
Recorded 05/16/24			
<b>AMBIENT TEST TEMPERATURE DEGC</b>	20.0	15.0 - 30.0	21.0
Sample ID			
Tested 05/16/24			
Tester DTRA			
Recorded 05/16/24			
<b>Actual Normality</b>	2.0000	1.9990 - 2.0010	1.9996
	EQ/L		
Sample ID			
Tested 05/16/24			
Tester DTRA			
Recorded 05/16/24			
<b>QCSP5: STANDARDIZATION OF AQUEOUS ACIDS</b>	YES		YES
	METHOD		
Sample ID			
Tested 05/16/24			
Tester DTRA			
Recorded 05/16/24			



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

YES

YES

YES

Sample ID

Tested 05/16/24

Tester DTRA

Recorded 05/16/24

**CERTIFIED TOTAL ORGANIC**

1.0

0.0 - 4.0

1.1

**CARBON (PPM)**

PPM

Sample ID

Tested 05/16/24

Tester DTRA

Recorded 05/16/24

**APPEARANCE AND COLOR**

CLEAR LIQUID

PASS

APPEARANCE

Sample ID

Tested 05/16/24

Tester DTRA

Recorded 05/16/24

**INSTRUMENTS USED DURING**

INSTRUMENT

M55,M25,T203

**PREPARATION**

Sample ID

Tested 05/16/24

Tester DTRA

Recorded 05/16/24

**Actual Color, APHA**

10

0 - 10

0

COLOR

Sample ID

Tested 05/16/24

Tester DTRA

Recorded 05/16/24

**Prepared with 36.5-38% ACS HCL**

YES

YES

YES

Sample ID

Tested 05/16/24

Tester DTRA

Recorded 05/16/24

**IDENTITY**

PASS

PASS

PASS

Sample ID

Tested 05/16/24

Tester DTRA

Recorded 05/16/24

**EXPIRATION DATE**

MM/DD/YY

05/30/26

MM/DD/YYYY

Sample ID

Tested 05/16/24

Tester DTRA

Recorded 05/16/24



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<b>SHELF LIFE OF PRODUCT</b>	SHELF LIFE TIME		2 YEARS
Sample ID			
Tested	05/16/24		
Tester	DTRA		
Recorded	05/16/24		
<b>Actual Density</b>	1.03295 GM/ML	1.03239 - 1.03351	1.03292
Sample ID			
Tested	05/16/24		
Tester	DTRA		
Recorded	05/16/24		
<b>SPECIFIC GRAVITY</b>	1.035 SPEC GRAV	1.030 - 1.040	1.035
Sample ID			
Tested	05/16/24		
Tester	DTRA		
Recorded	05/16/24		
<b>Assay w/v HCL</b>	7.29 W/V%	6.12 - 7.48	7.29
Sample ID			
Tested	05/16/24		
Tester	DTRA		
Recorded	05/16/24		
<b>EXPIRATION DATE</b>	MM/DD/YYYY MM/DD/YYYY		05/30/2026
Sample ID			
Tested	05/16/24		
Tester	DTRA		
Recorded	05/16/24		
<b>Lot #</b>	4051420		
<b>Made</b>	05/16/24		

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**