



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

Packaged Product: 4145			
HYDROCHLORIC ACID 0.178 NORMAL			
Test	Target/UOM	Range	Result
PREPARED TO FORMULATION ON FILE	YES		YES
Sample ID	YES		
Tested 04/05/24			
Tester AFRE			
Recorded 04/05/24			
SAMPLE COLLECTION & HANDLING PER LAB040	YES		YES
Sample ID	YES		
Tested 04/05/24			
Tester AFRE			
Recorded 04/05/24			
DATE OF SAMPLING FOR TEST PURPOSES	MM/DD/YYYY		04/05/2024
Sample ID	MM/DD/YYYY		
Tested 04/05/24			
Tester AFRE			
Recorded 04/05/24			
AMBIENT TEMPERATURE DURING SAMPLING DEGC	25.0	10.0 - 35.0	20.0
Sample ID	DEG C		
Tested 04/05/24			
Tester AFRE			
Recorded 04/05/24			
DATE OF TESTING OF SAMPLE	MM/DD/YYYY		04/05/2024
Sample ID	MM/DD/YYYY		
Tested 04/05/24			
Tester AFRE			
Recorded 04/05/24			
AMBIENT TEST TEMPERATURE DEG C	20.0	15.0 - 30.0	20.0
Sample ID	DEG C		
Tested 04/05/24			
Tester AFRE			
Recorded 04/05/24			
Actual Normality	0.1780	0.1775 - 0.1785	0.1780
Sample ID	EQ/L		
Tested 04/05/24			
Tester AFRE			
Recorded 04/05/24			
QCSP5: STANDARDIZATION OF AQUEOUS ACIDS	YES		YES
Sample ID	METHOD		
Tested 04/05/24			
Tester AFRE			
Recorded 04/05/24			



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

YES

YES

YES

Sample ID

Tested 04/05/24

Tester AFRE

Recorded 04/05/24

APPEARANCE AND COLOR

CLEAR LIQUID

PASS

APPEARANCE

Sample ID

Tested 04/05/24

Tester AFRE

Recorded 04/05/24

INSTRUMENTS USED DURING

INSTRUMENT

GC,VF5-L10,M55,BID00488,PI

PREPARATION

DM91

Sample ID

Tested 04/05/24

Tester AFRE

Recorded 04/05/24

Actual Density

1.00148

1.00128 - 1.00168

1.00152

GM/ML

Sample ID

Tested 04/05/24

Tester AFRE

Recorded 04/05/24

EXPIRATION DATE

MM/DD/YYYY

10/30/2025

MM/DD/YYYY

Sample ID

Tested 04/05/24

Tester AFRE

Recorded 04/05/24

Lot # 4040455

Made 04/05/24

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