



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

| Packaged Product: 4190 | | | |
|--|------------|-----------------|------------|
| HYDROCHLORIC ACID 0.5 NORMAL (MOLAR) NIST TRACEABLE SOLUTION | | | |
| Test | Target/UOM | Range | Result |
| Actual Normality | 0.5000 | 0.4995 - 0.5005 | 0.4997 |
| | EQ/L | | |
| Sample ID | | | |
| Tested 07/25/24 | | | |
| Tester RIRO | | | |
| Recorded 07/25/24 | | | |
| QCSP5: STANDARDIZATION OF AQUEOUS ACIDS | YES | | YES |
| | METHOD | | |
| Sample ID | | | |
| Tested 07/25/24 | | | |
| Tester RIRO | | | |
| Recorded 07/25/24 | | | |
| N.I.S.T. Traceable to SRM 723 THAM | YES | | YES |
| | YES | | |
| Sample ID | | | |
| Tested 07/25/24 | | | |
| Tester RIRO | | | |
| Recorded 07/25/24 | | | |
| PREPARED TO FORMULATION ON FILE | YES | | YES |
| | YES | | |
| Sample ID | | | |
| Tested 07/25/24 | | | |
| Tester RIRO | | | |
| Recorded 07/25/24 | | | |
| SAMPLE COLLECTION & HANDLING PER LAB040 | YES | | YES |
| | YES | | |
| Sample ID | | | |
| Tested 07/25/24 | | | |
| Tester RIRO | | | |
| Recorded 07/25/24 | | | |
| DATE OF SAMPLING FOR TEST PURPOSES | MM/DD/YYYY | | 07/25/2024 |
| | MM/DD/YYYY | | |
| Sample ID | | | |
| Tested 07/25/24 | | | |
| Tester RIRO | | | |
| Recorded 07/25/24 | | | |
| AMBIENT TEMPERATURE DURING SAMPLING DEGC | 25.0 | 10.0 - 35.0 | 21.0 |
| | DEG C | | |
| Sample ID | | | |
| Tested 07/25/24 | | | |
| Tester RIRO | | | |
| Recorded 07/25/24 | | | |
| DATE OF TESTING OF SAMPLE | MM/DD/YYYY | | 07/25/2024 |
| | MM/DD/YYYY | | |
| Sample ID | | | |
| Tested 07/25/24 | | | |
| Tester RIRO | | | |
| Recorded 07/25/24 | | | |



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| | | | |
|--|--------------|-------------------|--------------------|
| AMBIENT TEST TEMPERATURE | 20.0 | 15.0 - 30.0 | 21.0 |
| DEG C | DEG C | | |
| Sample ID | | | |
| Tested | 07/25/24 | | |
| Tester | RIRO | | |
| Recorded | 07/25/24 | | |
| APPEARANCE AND COLOR | CLEAR LIQUID | | PASS |
| | APPEARANCE | | |
| Sample ID | | | |
| Tested | 07/25/24 | | |
| Tester | RIRO | | |
| Recorded | 07/25/24 | | |
| INSTRUMENTS USED DURING PREPARATION | INSTRUMENT | | T4,VF2-B11,GC,T-VI |
| Sample ID | | | |
| Tested | 07/25/24 | | |
| Tester | RIRO | | |
| Recorded | 07/25/24 | | |
| EXPIRATION DATE | MM/DD/YY | | 07/30/26 |
| | MM/DD/YYYY | | |
| Sample ID | | | |
| Tested | 07/25/24 | | |
| Tester | RIRO | | |
| Recorded | 07/25/24 | | |
| Actual Density | 1.00721 | 1.00710 - 1.00732 | 1.00726 |
| | GM/ML | | |
| Sample ID | | | |
| Tested | 07/25/24 | | |
| Tester | RIRO | | |
| Recorded | 07/25/24 | | |
| SHELF LIFE OF PRODUCT | 2 YEARS | | 2 YEARS |
| | TIME | | |
| Sample ID | | | |
| Tested | 07/25/24 | | |
| Tester | RIRO | | |
| Recorded | 07/25/24 | | |
| Lot # | 4071903 | | |
| Made | 07/25/24 | | |

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.



Aqua Solutions, Inc.
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Deer Park, TX 77536
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Date: 07/25/24 at 3:05 PM

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

Quality Manager