



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 FILE | YES | | YES |
| Sample ID | | | |
| Tested 01/05/24 | | | |
| Tester DTRA | | | |
| Recorded 01/05/24 | | | |
| SAMPLE COLLECTION & HANDLING PER LAB040 | YES | | YES |
| Sample ID | | | |
| Tested 01/05/24 | | | |
| Tester DTRA | | | |
| Recorded 01/05/24 | | | |
| DATE OF SAMPLING FOR TEST PURPOSES | MM/DD/YYYY | | 01/05/2024 |
| Sample ID | | | |
| Tested 01/05/24 | | | |
| Tester DTRA | | | |
| Recorded 01/05/24 | | | |
| AMBIENT TEMPERATURE DURING SAMPLING DEGC | 25.0 | 10.0 - 35.0 | 21.5 |
| Sample ID | | | |
| Tested 01/05/24 | | | |
| Tester DTRA | | | |
| Recorded 01/05/24 | | | |
| DATE OF TESTING OF SAMPLE | MM/DD/YYYY | | 01/05/2024 |
| Sample ID | | | |
| Tested 01/05/24 | | | |
| Tester DTRA | | | |
| Recorded 01/05/24 | | | |
| AMBIENT TEST TEMPERATURE DEGC | 20.0 | 15.0 - 30.0 | 21.5 |
| Sample ID | | | |
| Tested 01/05/24 | | | |
| Tester DTRA | | | |
| Recorded 01/05/24 | | | |
| Actual Normality | 2.0000 | 1.9990 - 2.0010 | 2.0003 |
| | EQ/L | | |
| Sample ID | | | |
| Tested 01/05/24 | | | |
| Tester DTRA | | | |
| Recorded 01/05/24 | | | |
| QCSP5: STANDARDIZATION OF AQUEOUS ACIDS | YES | | YES |
| | METHOD | | |
| Sample ID | | | |
| Tested 01/05/24 | | | |
| Tester DTRA | | | |
| Recorded 01/05/24 | | | |



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| | | | |
|---|-------------------------|-----------|-------------------------------------|
| N.I.S.T. Traceable to SRM 723 THAM | YES | | YES |
| | YES | | |
| Sample ID | | | |
| Tested | 01/05/24 | | |
| Tester | DTRA | | |
| Recorded | 01/05/24 | | |
| CERTIFIED TOTAL ORGANIC CARBON (PPM) | 1.0 | 0.0 - 4.0 | 0.7 |
| | PPM | | |
| Sample ID | | | |
| Tested | 01/05/24 | | |
| Tester | DTRA | | |
| Recorded | 01/05/24 | | |
| APPEARANCE AND COLOR | CLEAR LIQUID APPEARANCE | | PASS |
| Sample ID | | | |
| Tested | 01/05/24 | | |
| Tester | DTRA | | |
| Recorded | 01/05/24 | | |
| INSTRUMENTS USED DURING PREPARATION | INSTRUMENT | | T245,T71,M55,M109,M44,M81, BID00787 |
| Sample ID | | | |
| Tested | 01/05/24 | | |
| Tester | DTRA | | |
| Recorded | 01/05/24 | | |
| Actual Color, APHA | 10 | 0 - 10 | 10 |
| | COLOR | | |
| Sample ID | | | |
| Tested | 01/05/24 | | |
| Tester | DTRA | | |
| Recorded | 01/05/24 | | |
| Prepared with 36.5-38% ACS HCL | YES | | YES |
| | YES | | |
| Sample ID | | | |
| Tested | 01/05/24 | | |
| Tester | DTRA | | |
| Recorded | 01/05/24 | | |
| IDENTITY | PASS | | PASS |
| | PASS | | |
| Sample ID | | | |
| Tested | 01/05/24 | | |
| Tester | DTRA | | |
| Recorded | 01/05/24 | | |
| EXPIRATION DATE | MM/DD/YY | | 01/30/26 |
| | MM/DD/YYYY | | |
| Sample ID | | | |
| Tested | 01/05/24 | | |
| Tester | DTRA | | |
| Recorded | 01/05/24 | | |



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| | | |
|------------------------------|--------------------------|------------------------------|
| SHELF LIFE OF PRODUCT | SHELF LIFE TIME | 2 YEARS |
| Sample ID | | |
| Tested 01/05/24 | | |
| Tester DTRA | | |
| Recorded 01/05/24 | | |
| Actual Density | 1.03295 GM/ML | 1.03239 - 1.03351 1.03299 |
| Sample ID | | |
| Tested 01/05/24 | | |
| Tester DTRA | | |
| Recorded 01/05/24 | | |
| SPECIFIC GRAVITY | 1.035 SPEC GRAV | 1.030 - 1.040 1.035 |
| Sample ID | | |
| Tested 01/05/24 | | |
| Tester DTRA | | |
| Recorded 01/05/24 | | |
| Assay w/v HCL | 7.29 W/V% | 6.12 - 7.48 7.29 |
| Sample ID | | |
| Tested 01/05/24 | | |
| Tester DTRA | | |
| Recorded 01/05/24 | | |
| EXPIRATION DATE | MM/DD/YYYY MM/DD/YYYY | 01/30/2026 |
| Sample ID | | |
| Tested 01/05/24 | | |
| Tester DTRA | | |
| Recorded 01/05/24 | | |
| Lot # | 4010315 | |
| Made | 01/05/24 | |

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