



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

Packaged Product: 4350-1L
 HYDROCHLORIC ACID 1.0 NORMAL NIST TRACEABLE (1L)

Lot # 4050954

Chemical Product: 4350
 HYDROCHLORIC ACID 1.0 NORMAL N.I.S.T. TRACEABLE

| Test | Target/UOM | Range | Result |
|--|------------------|-------------------|---------|
| PREPARED TO FORMULATION ON FILE | YES | | YES |
| Sample ID | | | |
| Tested 05/10/24 | | | |
| Tester JENC | | | |
| Recorded 05/10/24 | | | |
| SAMPLE COLLECTION & HANDLING PER LAB040 | YES | | YES |
| Sample ID | | | |
| Tested 05/10/24 | | | |
| Tester JENC | | | |
| Recorded 05/10/24 | | | |
| Actual Normality | 1.0000 EQ/L | 0.9995 - 1.0005 | 1.0001 |
| Sample ID | | | |
| Tested 05/10/24 | | | |
| Tester JENC | | | |
| Recorded 05/10/24 | | | |
| + Measurement Uncertainty | 0.0079 EQ/L | = 0.0079 | 0.0079 |
| Sample ID | | | |
| Tested 05/10/24 | | | |
| Tester JENC | | | |
| Recorded 05/10/24 | | | |
| QCSP5: STANDARDIZATION OF AQUEOUS ACIDS | YES METHOD | | YES |
| Sample ID | | | |
| Tested 05/10/24 | | | |
| Tester JENC | | | |
| Recorded 05/10/24 | | | |
| Actual Density | 1.01599 GM/ML | 1.01513 - 1.01684 | 1.01596 |
| Sample ID | | | |
| Tested 05/10/24 | | | |
| Tester JENC | | | |
| Recorded 05/10/24 | | | |
| N.I.S.T. Traceable to SRM 723 THAM | YES YES | | YES |
| Sample ID | | | |
| Tested 05/10/24 | | | |
| Tester JENC | | | |
| Recorded 05/10/24 | | | |



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| | | | |
|---|-------------------------|-----------|--|
| CERTIFIED TOTAL ORGANIC CARBON (PPM) | 1.0 PPM | 0.0 - 3.0 | 0.6 |
| Sample ID | | | |
| Tested | 05/10/24 | | |
| Tester | JENC | | |
| Recorded | 05/10/24 | | |
| APPEARANCE AND COLOR | CLEAR LIQUID APPEARANCE | | PASS |
| Sample ID | | | |
| Tested | 05/10/24 | | |
| Tester | JENC | | |
| Recorded | 05/10/24 | | |
| COLOR | <10 PT-CO | | 1 |
| Sample ID | | | |
| Tested | 05/10/24 | | |
| Tester | JENC | | |
| Recorded | 05/10/24 | | |
| INSTRUMENTS USED DURING PREPARATION | INSTRUMENT | | T-169,VF5-E3,VF4-N9,GC,T-20 3,BID-0 |
| Sample ID | | | |
| Tested | 05/10/24 | | |
| Tester | JENC | | |
| Recorded | 05/10/24 | | |
| EXPIRATION DATE | MM/DD/YY MM/DD/YYYY | | 05/30/26 |
| Sample ID | | | |
| Tested | 05/10/24 | | |
| Tester | JENC | | |
| Recorded | 05/10/24 | | |
| SHELF LIFE OF PRODUCT | 2 YEARS TIME | | 2 YEARS |
| Sample ID | | | |
| Tested | 05/10/24 | | |
| Tester | JENC | | |
| Recorded | 05/10/24 | | |
| Made | 05/10/24 | | |

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.