



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

| <b>Packaged Product:</b> 0440              |                         |                   |                |
|--|-------------------------|-------------------|----------------|
| AMMONIUM HYDROXIDE (1+1) 50% V/V SOLUTION  |                         |                   |                |
| Test                                       | Target/UOM              | Range             | Result         |
| <b>PREPARED TO FORMULATION ON FILE</b>     | YES                     |                   | YES            |
| Sample ID                                  | YES                     |                   |                |
| Tested 06/11/24                            |                         |                   |                |
| Tester JRIO                                |                         |                   |                |
| Recorded 06/11/24                          |                         |                   |                |
| <b>VOLUME PERCENT AMMONIUM HYDROXIDE</b>   | 50.0                    | 49.9 - 50.1       | 50.0           |
|  | V/V%                    |                   |                |
| Sample ID                                  |                         |                   |                |
| Tested 06/11/24                            |                         |                   |                |
| Tester JRIO                                |                         |                   |                |
| Recorded 06/11/24                          |                         |                   |                |
| <b>APPEARANCE AND COLOR</b>                | CLEAR LIQUID APPEARANCE |                   | PASS           |
| Sample ID                                  |                         |                   |                |
| Tested 06/11/24                            |                         |                   |                |
| Tester JRIO                                |                         |                   |                |
| Recorded 06/11/24                          |                         |                   |                |
| <b>Actual Density</b>                      | 0.94555                 | 0.94176 - 0.94933 | 0.94643        |
|  | GM/ML                   |                   |                |
| Sample ID                                  |                         |                   |                |
| Tested 06/11/24                            |                         |                   |                |
| Tester JRIO                                |                         |                   |                |
| Recorded 06/11/24                          |                         |                   |                |
| <b>INSTRUMENTS USED DURING PREPARATION</b> | INSTRUMENT              |                   | T-38,T-218,M55 |
| Sample ID                                  |                         |                   |                |
| Tested 06/11/24                            |                         |                   |                |
| Tester JRIO                                |                         |                   |                |
| Recorded 06/11/24                          |                         |                   |                |
| <b>EXPIRATION DATE</b>                     | MM/DD/YY                |                   | 06/30/26       |
|  | MM/DD/YYYY              |                   |                |
| Sample ID                                  |                         |                   |                |
| Tested 06/11/24                            |                         |                   |                |
| Tester JRIO                                |                         |                   |                |
| Recorded 06/11/24                          |                         |                   |                |
| <b>SHELF LIFE OF PRODUCT</b>               | SHELF LIFE TIME         |                   | 2 YEARS        |
| Sample ID                                  |                         |                   |                |
| Tested 06/11/24                            |                         |                   |                |
| Tester JRIO                                |                         |                   |                |
| Recorded 06/11/24                          |                         |                   |                |
| <b>Lot #</b>                               | 4061157                 |                   |                |
| <b>Made</b>                                | 06/11/24                |                   |                |



Aqua Solutions, Inc.  
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Deer Park, TX 77536  
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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**