



**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			
Tested 10/07/24			
Tester BFRA			
Recorded 10/07/24			
<b>VOLUME PERCENT AMMONIUM HYDROXIDE</b>	50.0 V/V%	49.9 - 50.1	50.0
Sample ID			
Tested 10/07/24			
Tester BFRA			
Recorded 10/07/24			
<b>APPEARANCE AND COLOR</b>	CLEAR LIQUID APPEARANCE		PASS
Sample ID			
Tested 10/07/24			
Tester BFRA			
Recorded 10/07/24			
<b>Actual Density</b>	0.94555 GM/ML	0.94176 - 0.94933	0.94559
Sample ID			
Tested 10/07/24			
Tester BFRA			
Recorded 10/07/24			
<b>INSTRUMENTS USED DURING PREPARATION</b>	INSTRUMENT		T-24,T-192,T-24
Sample ID			
Tested 10/07/24			
Tester BFRA			
Recorded 10/07/24			
<b>EXPIRATION DATE</b>	MM/DD/YY MM/DD/YYYY		10/30/26
Sample ID			
Tested 10/07/24			
Tester BFRA			
Recorded 10/07/24			
<b>SHELF LIFE OF PRODUCT</b>	SHELF LIFE TIME		2 YEARS
Sample ID			
Tested 10/07/24			
Tester BFRA			
Recorded 10/07/24			
<b>Lot #</b>	4100168		
<b>Made</b>	10/07/24		



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Deer Park, TX 77536  
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Page: 2

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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**