



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

<b>Packaged Product:</b> A4747F AMMONIUM HYDROXIDE 1.0 NORMAL			
Test	Target/UOM	Range	Result
<b>PREPARED TO FORMULATION ON</b>	YES		YES
<b>FILE</b>	YES		
Sample ID			
Tested 05/02/24			
Tester BPHI			
Recorded 05/02/24			
<b>Actual Normality</b>	1.0000 EQ/L	0.9975 - 1.0025	0.9983
Sample ID			
Tested 05/02/24			
Tester BPHI			
Recorded 05/02/24			
<b>APPEARANCE AND COLOR</b>	CLEAR LIQUID APPEARANCE		PASS
Sample ID			
Tested 05/02/24			
Tester BPHI			
Recorded 05/02/24			
<b>INSTRUMENTS USED DURING PREPARATION</b>	INSTRUMENT		M87,T-230
Sample ID			
Tested 05/02/24			
Tester BPHI			
Recorded 05/02/24			
<b>Actual Density</b>	0.99081 GM/ML	0.99028 - 0.99135	0.99062
Sample ID			
Tested 05/02/24			
Tester BPHI			
Recorded 05/02/24			
<b>EXPIRATION DATE</b>	MM/DD/YYYY MM/DD/YYYY		05/30/2026
Sample ID			
Tested 05/02/24			
Tester BPHI			
Recorded 05/02/24			
<b>Lot #</b>	4050155		
<b>Made</b>	05/02/24		



Aqua Solutions, Inc.  
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Page: 2

Date: 05/02/24 at 1:49 PM

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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**