



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

<b>Packaged Product:</b> VUL437F			
WORKING FERROUS AMMONIUM SULFATE SOLUTION			
Test	Target/UOM	Range	Result
<b>PREPARED TO FORMULATION ON FILE</b>	YES		YES
Sample ID			
Tested 12/05/24			
Tester MMAT			
Recorded 12/05/24			
<b>CALCULATED GPL FERROUS AMMONIUM SULFATE</b>	0.4000 GPL	0.3995 - 0.4005	0.4000
Sample ID			
Tested 12/05/24			
Tester MMAT			
Recorded 12/05/24			
<b>Actual Density</b>	1.05788 G/ML	1.04784 - 1.06793	1.05815
Sample ID			
Tested 12/05/24			
Tester MMAT			
Recorded 12/05/24			
<b>APPEARANCE AND COLOR</b>	PALE GREEN LIQUID APPEARANCE		PASS
Sample ID			
Tested 12/05/24			
Tester MMAT			
Recorded 12/05/24			
<b>INSTRUMENTS USED DURING PREPARATION</b>	INSTRUMENT		M108,GC,VF4-N21
Sample ID			
Tested 12/05/24			
Tester MMAT			
Recorded 12/05/24			
<b>EXPIRATION DATE</b>	MM/DD/YY MM/DD/YYYY		01/09/25
Sample ID			
Tested 12/05/24			
Tester MMAT			
Recorded 12/05/24			
<b>SHELF LIFE OF PRODUCT</b>	5 WEEKS TIME		5 WEEKS
Sample ID			
Tested 12/05/24			
Tester MMAT			
Recorded 12/05/24			
<b>Lot #</b>	4120524		
<b>Made</b>	12/05/24		



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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**