



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

<b>Packaged Product:</b> HOE048F			
GUR MID MULTI-ELEMENT STANDARD IN 4% NITRIC ACID (4L)			
Test	Target/UOM	Range	Result
<b>PREPARED TO FORMULATION ON FILE</b>	YES		YES
Sample ID			
Tested 07/13/23			
Tester MMAT			
Recorded 07/13/23			
<b>APPEARANCE AND COLOR</b>	CLEAR TO SLIGHT AMBER COLOR APPEARANCE		PASS
Sample ID			
Tested 07/13/23			
Tester MMAT			
Recorded 07/13/23			
<b>INSTRUMENTS USED DURING PREPARATION</b>	INSTRUMENT		GC,M115,VF4-N19
Sample ID			
Tested 07/13/23			
Tester MMAT			
Recorded 07/13/23			
<b>ALUMINUM MG/L (CALCULATED)</b>	10.000 ± 0.001 MG/L		10.000
Sample ID			
Tested 07/13/23			
Tester MMAT			
Recorded 07/13/23			
<b>CALCIUM MG/L (CALCULATED)</b>	20.000 ± 0.001 MG/L		20.000
Sample ID			
Tested 07/13/23			
Tester MMAT			
Recorded 07/13/23			
<b>IRON MG/L (CALCULATED)</b>	3.000 ± 0.001 MG/L		3.000
Sample ID			
Tested 07/13/23			
Tester MMAT			
Recorded 07/13/23			
<b>MAGNESIUM MG/L (CALCULATED)</b>	7.000 ± 0.001 MG/L (PPM)		7.000
Sample ID			
Tested 07/13/23			
Tester MMAT			
Recorded 07/13/23			
<b>TITANIUM MG/L (CALCULATED)</b>	10.000 ± 0.001 MG/L		10.000
Sample ID			
Tested 07/13/23			
Tester MMAT			
Recorded 07/13/23			



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<b>ZINC MG/L (CALCULATED)</b>	30.000 ± 0.001	30.000
	PPM (MG/L)	
Sample ID		
Tested	07/13/23	
Tester	MMAT	
Recorded	07/13/23	
<b>EXPIRATION DATE</b>	MM/DD/YYYY	01/30/24
	MM/DD/YYYY	
Sample ID		
Tested	07/13/23	
Tester	MMAT	
Recorded	07/13/23	
<b>Lot #</b>	3071313	
<b>Made</b>	07/13/23	

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**