

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

<b>Packaged Product:</b> HOE044F			
MIXED METALS HIGH LEVEL IN 2% HNO3 + 0.05% HCL (LITER)			
Test	Target/UOM	Range	Result
<b>PREPARED TO FORMULATION ON</b>	YES		YES
<b>FILE</b>	YES		
Sample ID			
Tested 07/06/23			
Tester MMAT			
Recorded 07/06/23			
<b>LOT # 1850</b>	LOT #		313101
Sample ID			
Tested 07/06/23			
Tester MMAT			
Recorded 07/06/23			
<b>COPPER CONTENT</b>	10.000 ± 0.001		10.000
	CR		
Sample ID			
Tested 07/06/23			
Tester MMAT			
Recorded 07/06/23			
<b>LOT # 2250</b>	LOT #		233307
Sample ID			
Tested 07/06/23			
Tester MMAT			
Recorded 07/06/23			
<b>NICKEL CONTENT</b>	10.000 ± 0.001		10.000
	PPM		
Sample ID			
Tested 07/06/23			
Tester MMAT			
Recorded 07/06/23			
<b>LOT # 6450</b>	LOT #		308008
Sample ID			
Tested 07/06/23			
Tester MMAT			
Recorded 07/06/23			
<b>GRAMS OF ZINC</b>	10.000 ± 0.001		10.000
	GM		
Sample ID			
Tested 07/06/23			
Tester MMAT			
Recorded 07/06/23			
<b>LOT # ZINC AA 1,000 PPM STD</b>	LOT #		308705
Sample ID			
Tested 07/06/23			
Tester MMAT			
Recorded 07/06/23			
<b>SELENIUM</b>	10.000 ± 0.001		10.001
	PPM		
Sample ID			
Tested 07/06/23			
Tester MMAT			
Recorded 07/06/23			

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<b>LOT 8150</b>	<b>LOT #</b>	216604
Sample ID		
Tested 07/06/23		
Tester MMAT		
Recorded 07/06/23		
<b>ALUMINUM CONTENT</b>	460.000 ± 0.001	460.000
	AL	
Sample ID		
Tested 07/06/23		
Tester MMAT		
Recorded 07/06/23		
<b>LOT # ALUMINUM AA 1,000 PPM STD</b>	<b>LOT #</b>	309603
Sample ID		
Tested 07/06/23		
Tester MMAT		
Recorded 07/06/23		
<b>Iron Content</b>	46.000 ± 0.001	460.004
	PPM	
Sample ID		
Tested 07/06/23		
Tester MMAT		
Recorded 07/06/23		
<b>APPEARANCE AND COLOR</b>	CLEAR WATER WHITE APPEARANCE	PASS
Sample ID		
Tested 07/06/23		
Tester MMAT		
Recorded 07/06/23		
<b>INSTRUMENTS USED DURING PREPARATION</b>	INSTRUMENT	GC,M115,VF1-Z31
Sample ID		
Tested 07/06/23		
Tester MMAT		
Recorded 07/06/23		
<b>EXPIRATION DATE</b>	MM/DD/YYYY	01/30/24
	MM/DD/YYYY	
Sample ID		
Tested 07/06/23		
Tester MMAT		
Recorded 07/06/23		
<b>CHROMIUM CONTENT</b>	10.000 ± 0.001	10.000
	CR	
Sample ID		
Tested 07/06/23		
Tester MMAT		
Recorded 07/06/23		

**Lot #** 3060808

**Made** 07/06/23



Aqua Solutions, Inc.  
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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**