



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

<b>Packaged Product:</b> HUN017F			
NITRIC ACID 4.5 NORMAL SOLUTION (4LPVC)			
Test	Target/UOM	Range	Result
<b>PREPARED TO FORMULATION ON FILE</b>	YES		YES
Sample ID	YES		
Tested 09/21/23			
Tester AFRE			
Recorded 09/21/23			
<b>SAMPLE COLLECTION &amp; HANDLING PER LAB040</b>	YES		YES
Sample ID	YES		
Tested 09/21/23			
Tester AFRE			
Recorded 09/21/23			
<b>DATE OF SAMPLING FOR TEST PURPOSES</b>	MM/DD/YYYY		09/21/2023
Sample ID	MM/DD/YYYY		
Tested 09/21/23			
Tester AFRE			
Recorded 09/21/23			
<b>AMBIENT TEMPERATURE DURING SAMPLING DEGC</b>	25.0	10.0 - 35.0	20.0
Sample ID	DEG C		
Tested 09/21/23			
Tester AFRE			
Recorded 09/21/23			
<b>DATE OF TESTING OF SAMPLE</b>	MM/DD/YYYY		09/21/2023
Sample ID	MM/DD/YYYY		
Tested 09/21/23			
Tester AFRE			
Recorded 09/21/23			
<b>AMBIENT TEST TEMPERATURE DEG C</b>	20.0	15.0 - 30.0	20.0
Sample ID	DEG C		
Tested 09/21/23			
Tester AFRE			
Recorded 09/21/23			
<b>NORMALITY TO 4 DEC PLACES</b>	4.5000	4.4920 - 4.5080	4.5026
Sample ID	EQUIV/LITER		
Tested 09/21/23			
Tester AFRE			
Recorded 09/21/23			
<b>N.I.S.T. Traceable to SRM 723 THAM</b>	YES		YES
Sample ID	YES		
Tested 09/21/23			
Tester AFRE			
Recorded 09/21/23			



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<b>Actual Density</b>	1.14635	1.14421 - 1.14850	1.14627
	GM/ML		
Sample ID			
Tested	09/21/23		
Tester	AFRE		
Recorded	09/21/23		
<b>QCSP5: STANDARDIZATION OF AQUEOUS ACIDS</b>	YES		YES
	METHOD		
Sample ID			
Tested	09/21/23		
Tester	AFRE		
Recorded	09/21/23		
<b>APPEARANCE AND COLOR</b>	CLEAR TO PALE YELLOW		PASS
	LIQUID		
	APPEARANCE		
Sample ID			
Tested	09/21/23		
Tester	AFRE		
Recorded	09/21/23		
<b>INSTRUMENTS USED DURING PREPARATION</b>	INSTRUMENT		M100,T-42,BID-00488,PID-M91
Sample ID			
Tested	09/21/23		
Tester	AFRE		
Recorded	09/21/23		
<b>Lot #</b>	3092012		
<b>Made</b>	09/21/23		

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**