



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

<b>Packaged Product:</b> SPX101F			
NITRIC ACID 1.8N W/0.004% MANGANESE SULFATE			
Test	Target/UOM	Range	Result
<b>PREPARED TO FORMULATION ON FILE</b>	YES		YES
Sample ID			
Tested 07/26/24			
Tester RIRO			
Recorded 07/26/24			
<b>NORMALITY TO 4 DEC PLACES</b>	1.8000	1.7900 - 1.8100	1.7976
	EQUIV/LITER		
Sample ID			
Tested 07/26/24			
Tester RIRO			
Recorded 07/26/24			
<b>QCSP58:STANDARDIZATION ACID SOLN TO POTE</b>	YES		YES
	QCSP58		
Sample ID			
Tested 07/26/24			
Tester RIRO			
Recorded 07/26/24			
<b>N.I.S.T. Traceable to SRM 723 THAM</b>	PASS		PASS
	YES		
Sample ID			
Tested 07/26/24			
Tester RIRO			
Recorded 07/26/24			
<b>APPEARANCE AND COLOR</b>	CLEAR LIQUID APPEARANCE		PASS
Sample ID			
Tested 07/26/24			
Tester RIRO			
Recorded 07/26/24			
<b>INSTRUMENTS USED DURING PREPARATION</b>	INSTRUMENT		M87,T-45,M112,M55,M52,M91
Sample ID			
Tested 07/26/24			
Tester RIRO			
Recorded 07/26/24			
<b>ACTUAL PPM CERTIFIED TOC VALUE</b>	0	0 - 10	3
	PPM		
Sample ID			
Tested 07/26/24			
Tester RIRO			
Recorded 07/26/24			
<b>IC PPM NO DECIMAL PLACE</b>	0	0 - 20	1
	PPM		
Sample ID			
Tested 07/26/24			
Tester RIRO			
Recorded 07/26/24			



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<b>Actual Density</b>	1.05852	1.05675 - 1.06028	1.05818
	GM/ML		
Sample ID			
Tested	07/26/24		
Tester	RIRO		
Recorded	07/26/24		
<b>EXPIRATION DATE</b>	MM/DD/YYYY		01/30/2026
	MM/DD/YYYY		
Sample ID			
Tested	07/26/24		
Tester	RIRO		
Recorded	07/26/24		
<b>Lot #</b>	4071712		
<b>Made</b>	07/26/24		

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**