



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

<b>Packaged Product:</b> FS-A454-4			
METHANOL, OPTIMA GRADE CASE (4x4L)			
Test	Target/UOM	Range	Result
<b>ASSAY OF MATERIAL</b>	MIN 99.9%		100.0%
	%		
Sample ID			
Tested	10/25/24		
Tester	TBUR		
Recorded	10/25/24		
<b>APPEARANCE AND COLOR</b>	CLEAR COLORLESS LIQUID APPEARANCE		CLEAR, COLORLESS LIQUID
Sample ID			
Tested	10/25/24		
Tester	TBUR		
Recorded	10/25/24		
<b>COLOR</b>	MAX 5 APHA PT-CO		<5 APHA
Sample ID			
Tested	10/25/24		
Tester	TBUR		
Recorded	10/25/24		
<b>Passed test for presence of carb</b>	MAX 0.001% EA PASS		<0.001%
Sample ID			
Tested	10/25/24		
Tester	TBUR		
Recorded	10/25/24		
<b>FLUORESCENCE (AS QUININE BASE)</b>	MAX 1 PPB PPB		<1 PPB
Sample ID			
Tested	10/25/24		
Tester	TBUR		
Recorded	10/25/24		
<b>IDENTIFICATION</b>	PASSES TEST PASS		PASSES TEST
Sample ID			
Tested	10/25/24		
Tester	TBUR		
Recorded	10/25/24		
<b>REDUCING SUBSTANCES</b>	PASSES TEST PASS		PASSES TEST
Sample ID			
Tested	10/25/24		
Tester	TBUR		
Recorded	10/25/24		
<b>REFRACTIVE INDEX</b>	1.3285	1.3260 - 1.3300	1.3265
	REFRACTIVE INDE		
Sample ID			
Tested	10/25/24		
Tester	TBUR		
Recorded	10/25/24		



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<b>SUBSTANCES DARKENED BY</b>	<b>PASSES TEST</b>	<b>PASSES TEST</b>
<b>SULFURIC ACID</b>	<b>PASS</b>	
Sample ID		
Tested 10/25/24		
Tester TBUR		
Recorded 10/25/24		
<b>TITRABLE ACID</b>	<b>MAX 0.0003 MEQ/G</b>	<b>0.0002 MEQ/G</b>
	<b>T ACID</b>	
Sample ID		
Tested 10/25/24		
Tester TBUR		
Recorded 10/25/24		
<b>TITRABLE BASE</b>	<b>MAX 0.0002 MEQ/G</b>	<b>0.0000</b>
	<b>T BASE</b>	
Sample ID		
Tested 10/25/24		
Tester TBUR		
Recorded 10/25/24		
<b>WATER CONTENT</b>	<b>MAX 0.07%</b>	<b>0.01%</b>
	<b>%</b>	
Sample ID		
Tested 10/25/24		
Tester TBUR		
Recorded 10/25/24		
<b>SOLUBILITY</b>	<b>PASSES TEST</b>	<b>PASSES TEST</b>
	<b>PASS</b>	
Sample ID		
Tested 10/25/24		
Tester TBUR		
Recorded 10/25/24		
<b>RESIDUE AFTER EVAPORATION</b>	<b>&lt; = 1 PPM</b>	<b>0</b>
Sample ID		
Tested 10/25/24		
Tester TBUR		
Recorded 10/25/24		
<b>EXPIRATION DATE</b>	<b>MM/DD/YYYY</b>	<b>09/30/2029</b>
	<b>MM/DD/YYYY</b>	
Sample ID		
Tested 10/25/24		
Tester TBUR		
Recorded 10/25/24		

**Lot #** 429704  
**Made** 10/23/24



Aqua Solutions, Inc.  
Ph: 281-479-2569  
Fax: 281-479-2790  
P.O. Box 70  
Deer Park, TX 77536  
Website: [www.aquasolutions.org](http://www.aquasolutions.org)

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Date: 10/25/24 at 9:42 AM

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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**