



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

<b>Packaged Product:</b> 4391			
Hydrochloric Acid 5% v/v Trace metals grade			
Test	Target/UOM	Range	Result
<b>PREPARED TO FORMULATION ON FILE</b>	YES		YES
Sample ID	YES		
Tested 12/23/24			
Tester DNEW			
Recorded 12/23/24			
<b>CALCULATED V/V% HYDROCHLORIC ACID</b>	5.00	4.95 - 5.05	5.00
Sample ID	V/V%		
Tested 12/23/24			
Tester DNEW			
Recorded 12/23/24			
<b>CALCULATED PPM IRON (FE)</b>	0.05	0.00 - 0.10	0.00
Sample ID	PPM		
Tested 12/23/24			
Tester DNEW			
Recorded 12/23/24			
<b>Actual Density</b>	1.00882	1.00840 - 1.00923	1.00842
Sample ID	G/ML		
Tested 12/23/24			
Tester DNEW			
Recorded 12/23/24			
<b>APPEARANCE AND COLOR</b>	CLEAR LIQUID APPEARANCE		PASS
Sample ID			
Tested 12/23/24			
Tester DNEW			
Recorded 12/23/24			
<b>INSTRUMENTS USED DURING PREPARATION</b>	INSTRUMENT		GC,VF12-3,VF6-W9,T-220,M55
Sample ID			
Tested 12/23/24			
Tester DNEW			
Recorded 12/23/24			
<b>EXPIRATION DATE</b>	MM/DD/YYYY		12/30/2026
Sample ID	MM/DD/YYYY		
Tested 12/23/24			
Tester DNEW			
Recorded 12/23/24			
<b>Lot #</b>	4121144		
<b>Made</b>	12/23/24		



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**