



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

Packaged Product: VUL018F			
HYDROCHLORIC ACID 0.1 NORMAL (MR/THAM)			
Test	Target/UOM	Range	Result
PREPARED TO FORMULATION ON	YES		YES
FILE	YES		
Sample ID			
Tested 07/15/24			
Tester JRIO			
Recorded 07/15/24			
SAMPLE COLLECTION & HANDLING	YES		YES
PER LAB040	YES		
Sample ID			
Tested 07/15/24			
Tester JRIO			
Recorded 07/15/24			
DATE OF SAMPLING FOR TEST	MM/DD/YYYY		07/15/2024
PURPOSES	MM/DD/YYYY		
Sample ID			
Tested 07/15/24			
Tester JRIO			
Recorded 07/15/24			
AMBIENT TEMPERATURE DURING	25.0	10.0 - 35.0	20.0
SAMPLING DEGC	DEG C		
Sample ID			
Tested 07/15/24			
Tester AFRE			
Recorded 07/15/24			
DATE OF TESTING OF SAMPLE	MM/DD/YYYY		07/15/2024
	MM/DD/YYYY		
Sample ID			
Tested 07/15/24			
Tester AFRE			
Recorded 07/15/24			
AMBIENT TEST TEMPERATURE	20.0	15.0 - 30.0	20.0
DEG C	DEG C		
Sample ID			
Tested 07/15/24			
Tester AFRE			
Recorded 07/15/24			
NORMALITY TO 4 DEC PLACES	0.1000	0.0995 - 0.1005	0.0997
	EQUIV/LITER		
Sample ID			
Tested 07/15/24			
Tester AFRE			
Recorded 07/15/24			
N.I.S.T. Traceable to SRM 723	YES		YES
	YES		
Sample ID			
Tested 07/15/24			
Tester AFRE			
Recorded 07/15/24			



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APPEARANCE AND COLOR	CLEAR LIQUID APPEARANCE	PASS
Sample ID		
Tested	07/15/24	
Tester	AFRE	
Recorded	07/15/24	
INSTRUMENTS USED DURING PREPARATION	INSTRUMENT	GC,T-11,BID-00488,PID-M91
Sample ID		
Tested	07/15/24	
Tester	AFRE	
Recorded	07/15/24	
Actual Density	1.00006 GM/ML	0.99999 - 1.00013 1.00002
Sample ID		
Tested	07/15/24	
Tester	AFRE	
Recorded	07/15/24	
EXPIRATION DATE	MM/DD/YY MM/DD/YYYY	01/30/26
Sample ID		
Tested	07/15/24	
Tester	AFRE	
Recorded	07/15/24	
SHELF LIFE OF PRODUCT	18 MONTHS TIME	18 MONTHS
Sample ID		
Tested	07/15/24	
Tester	AFRE	
Recorded	07/15/24	
Lot #	4070133	
Made	07/15/24	

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