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Date: 12/13/24 at 10:50 AM

Aqua Solutions, Inc. 6913 Highway 225 Deer Park, TX, 77536 281/479-2569

Certificate of Analysis / QC Results

Customer PO #:

Customer PO #:						
Packaged	d Product:	4190				
		HYDROCHI	ORIC ACID 0.5 NORMAL	(MOLAR) NIST TRACEABLE SOLU	TION	
Test			Target/UOM	Range	Result	
Actual Normality			0.5000	0.4995 - 0.5005	0.5004	
			EQ/L			
	Sample ID					
	Tested	12/13/24				
	Tester	JENC				
	Recorded	12/13/24				
QCSP5: STANDARDIZATION OF		TION OF	YES		YES	
AQUEOUS ACIDS			METHOD			
	Sample ID					
	Tested	12/13/24				
	Tester	JENC				
	Recorded	12/13/24				
N.I.S.T. Traceable to SRM 723 THAM		M 723 THAM	YES		YES	
			YES			
	Sample ID					
	Tested	12/13/24				
	Tester	JENC				
		12/13/24				
	TO FORMU	LATION ON	YES		YES	
FILE			YES			
	Sample ID					
	Tested	12/13/24				
	Tester	JENC				
	Recorded	12/13/24				
SAMPLE COLLECTION & HANDLING		& HANDLING	YES		YES	
PER LAB040			YES			
	Sample ID					
	Tested	12/13/24				
	Tester	JENC				
	Recorded	12/13/24				
DATE OF S	AMPLING FO	R TEST	MM/DD/YYYY		12/13/2024	
PURPOSES	3		MM/DD/YYYY			
	Sample ID					
	Tested	12/13/24				
	Tester	JENC				
	Recorded	12/13/24				
AMBIENT T	EMPERATU	RE DURING	25.0	10.0 - 35.0	20.2	
SAMPLING	DEGC		DEG C			
	Sample ID					
	Tested	12/13/24				
	Tester	JENC				
	Recorded	12/13/24				
DATE OF TI	ESTING OF S		MM/DD/YYYY		12/13/2024	
			MM/DD/YYYY			
	Sample ID					
	Tested	12/13/24				
	Tester	JENC				
	Recorded	12/13/24				



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Customer PO #:

AMBIENT TEST TEMPERATUR	E 20.0 DEG C	15.0 - 30.0	20.2			
	BEG 6					
Sample ID Tested 12/13/	10.4					
Tester JENC						
Recorded 12/13/			B400			
APPEARANCE AND COLOR	CLEAR LIQUID APPEARANCE		PASS			
Sample ID						
Tested 12/13/	24					
Tester JENC						
Recorded 12/13/	24					
INSTRUMENTS USED DURING	INSTRUMENT		T-22,VF4-N16,GC,T-211,M55			
PREPARATION						
Sample ID						
Tested 12/13/	24					
Tester JENC						
Recorded 12/13/						
EXPIRATION DATE	MM/DD/YY		12/30/26			
	MM/DD/YYYY					
Sample ID	, 22,					
Tested 12/13/	AC.					
Tester JENC						
Recorded 12/13/						
Actual Density	1.00721	1.00710 - 1.00732	1.00723			
Actual Delisity	G/ML	1.00/10 - 1.00/02	1.00723			
Sample ID						
Tested 12/13/	24					
Tester JENC						
Recorded 12/13/						
SHELF LIFE OF PRODUCT	2 YEARS		2 YEARS			
	TIME		2 12/110			
Sample ID	THVIC					
Tested 12/13/	224					
Tested 12/13/						
	24					
Lot # 4112704						
Made 12/13/24						

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.

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

Unless otherwise agreed to, all chemicals used in the preparation of this product are Reagent ACS grade.

Quality Manager