

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

Packaged Product: VUL332F HYDROCHLORIC ACID 1.5 NORMAL			
Test	Target/UOM	Range	Result
PREPARED TO FORMULATION ON	YES		YES
FILE	YES		
Sample ID			
Tested 04/26/23			
Tester MHUS			
Recorded 04/26/23			
SAMPLE COLLECTION & HANDLING	YES		YES
PER LAB040	YES		
Sample ID			
Tested 04/26/23			
Tester MHUS			
Recorded 04/26/23			
DATE OF SAMPLING FOR TEST	MM/DD/YYYY		04/26/23
PURPOSES	MM/DD/YYYY		
Sample ID			
Tested 04/26/23			
Tester MHUS			
Recorded 04/26/23			
AMBIENT TEMPERATURE DURING	25.0	10.0 - 35.0	25.1
SAMPLING DEGC	DEG C		
Sample ID			
Tested 04/26/23			
Tester MHUS			
Recorded 04/26/23			
DATE OF TESTING OF SAMPLE	MM/DD/YYYY		04/26/23
	MM/DD/YYYY		
Sample ID			
Tested 04/26/23			
Tester MHUS			
Recorded 04/26/23			
AMBIENT TEST TEMPERATURE	20.0	15.0 - 30.0	21.0
DEG C	DEG C		
Sample ID			
Tested 04/26/23			
Tester MHUS			
Recorded 04/26/23			
NORMALITY TO 4 DEC PLACES	1.5000	1.4990 - 1.5010	1.5008
	EQUIV/LITER		
Sample ID			
Tested 04/26/23			
Tester MHUS			
Recorded 04/26/23			
N.I.S.T. Traceable to SRM 723 THAM	YES		YES
	YES		
Sample ID			
Tested 04/26/23			
Tester MHUS			
Recorded 04/26/23			



Aqua Solutions, Inc.
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Date: 04/26/23 at 2:35 PM

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Actual Density	1.02447 GM/ML	1.02434 - 1.02461	1.02446
Sample ID			
Tested	04/26/23		
Tester	MHUS		
Recorded	04/26/23		
APPEARANCE AND COLOR	CLEAR LIQUID APPEARANCE		PASS
Sample ID			
Tested	04/26/23		
Tester	MHUS		
Recorded	04/26/23		
INSTRUMENTS USED DURING PREPARATION	INSTRUMENT	T12,GC,T243,M55,M91,BID390 2	
Sample ID			
Tested	04/26/23		
Tester	MHUS		
Recorded	04/26/23		
Lot #	3032940		
Made	04/26/23		

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