

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

#### Customer PO # :

Packaged Product: ERL058F			
	JM HYDROXIDE 0.01 NORN	MAL IN IPA-7235	
Test	Target/UOM	Range	Result
PREPARED TO FORMULATION ON	YES		YES
FILE	YES		
Sample ID			
Tested 12/05/24			
Tester JENC			
Recorded 12/05/24			
SAMPLE COLLECTION & HANDLING	YES		YES
PER LAB040	YES		
Sample ID			
Tested 12/05/24			
Tester JENC			
Recorded 12/05/24			
DATE OF SAMPLING FOR TEST	MM/DD/YYYY		12/05/2024
PURPOSES	MM/DD/YYYY		
Sample ID			
Tested 12/05/24			
Tester JENC			
Recorded 12/05/24			
AMBIENT TEMPERATURE DURING	25.0	10.0 - 35.0	20.2
SAMPLING DEGC	DEG C		
Sample ID			
Tested 12/05/24			
Tester JENC			
Recorded 12/05/24			
DATE OF TESTING OF SAMPLE	MM/DD/YYYY		12/05/2024
	MM/DD/YYYY		
Sample ID			
Tested 12/05/24			
Tester JENC			
Recorded 12/05/24			
AMBIENT TEST TEMPERATURE	20.0	15.0 - 30.0	20.2
DEG C	DEG C		
Sample ID			
Tested 12/05/24			
Tester JENC			
Recorded 12/05/24			
LOT NUMBER OF ORIGINAL	LOT #		4052894
MATERIAL			1002007
Sample ID			
Tested 12/05/24			
Tester JENC			
Recorded 12/05/24			
Actual Normality	0.0100	0.0094 - 0.0106	0.0092
	EQ/L	0.0001 0.0100	3.0002
Sample ID			
Tested 12/05/24			
Tester JENC			
Recorded 12/05/24			
12/03/24			



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#### Customer PO # :

Sample ID Tested 1205/24 Recorded 1205/24 NLS.T. Traceable to SRM & (KHP) YES Sample ID Tested 1205/24 Tester JENC Recorded 1205/24 APPEARANCE AND COLV Recorded 1205/24 Tester JENC Recorded 1205/24 Tester JUS/24 Tester JUS/24 Recorded 1205/24 Tester JUS/24 Recorded 1205/24 Tester JUS/24 Recorded 1205/24 Tester JUS/24 Recorded 1205/24 Tester JUS/24 Recorded 1205/24 Tester JUS/24 Tester JUS/24 Tester JENC Recorded 1205/24 Tester JUS/24 Tester Tester JUS/24 Tester JUS/24 Tester Tester Tester Tester	Actual Density	0.78596 G/ML	0.78457 - 0.78736	0.78645
YES Sample ID Recorded 1205/24 Tester JENC Recorded 1205/24 APPEARANCE AND COLOR CLEAR WATER WHITE LIQUID APPEARANCE Sample ID Tested 1205/24 Tester JENC Recorded 1205/24 Te	Tested 12/05 Tester JENO Recorded 12/05	C 5/24		
Sample ID Tested J2/05/24 APPEARANCE AND COUR CLEAR WATER WHITE Recorded 12/05/24 Tested J2/05/24 Tested J2/05/24 Tested J2/05/24 Tested J2/05/24 Recorded 12/05/24 Tester JENC Recorded 12/05/24 Tester JENC REC	N.I.S.T. Traceable to SRM 84 (			YES
APPEARANCE AND COUCH APPEARANCE LIQUID APPEARANCE Sample ID Tested 12/05/24 Tester JENC Recorded 12/05/24 Tester JENC	Tested 12/05 Tester JENO	5/24 C		
Sample ID         Tested       12/05/24         Tested       JENC         Recorded       12/05/24         Tested       JENC         Recorded       12/05/24         Sample ID       INSTRUMENT         Sample ID       INSTRUMENT         Sample ID       Sample ID         Recorded       12/05/24         Tested       12/05/24         Recorded       12/05/24         Sample ID       MM/DD/YYYY         Sample ID       Tested       12/05/24         Recorded       12/05/24       Tested       12/05/24         SteLF LIFE OF PRODUCT       1 MONTH       1 MONTH         Time       1 MONTH       Time         Sample ID       Tested       12/05/24         Tested       12/05/24       1 MONTH         Time       1 MONTH       1 MONTH         Time       1 MONTH       1 MONTH         Tested       12/05/24       1 MONTH         Tester       JENC       1 MONTH		CLEAR WATER WHITE LIQUID		PASS
Tested         12/05/24           Tested         JENC           Recorded         12/05/24           Tostrumentrs USED DURING         LAB EQUIPMENT           MSTRUMENTS USED DURING         M55,M91,BID00419,TID41100           PREPARATION         INSTRUMENT           Sample ID         Tested           Tested         12/05/24           Recorded         12/05/24           Tested         12/05/24           Sample ID         MM/DD/YYYY           Sample ID         MM/DD/YYYY           Sample ID         MM/DD/YYYY           Sample ID         Tested           Tested         12/05/24           Tested         12/05/24           Tested         12/05/24           Tested         12/05/24           Tested         12/05/24           Sample ID         TIME           Tested         12/05/24           Tested	Sample ID			
Recorded         12/05/24         M55,M91,BID00419,TID41100           INSTRUMENTS         USED         M55,M91,BID00419,TID41100           PREPARATION         INSTRUMENT         M57,M91,BID00419,TID41100           Sample ID Tested         12/05/24         M57,M91,BID00419,TID41100           Recorded         12/05/24         Ander State           Tester         JENC         Ander State           Recorded         12/05/24         Ander State           Tester         JENC         Ander State           Sample ID Tested         12/05/24         Ander State           Recorded         12/05/24         Ander State           Tester         JENC         Ander State           Recorded         12/05/24         Ander State           Sample ID Tested         12/05/24         Ander State           Sample ID Tested         12/05/24         Ander State           Sample ID Tested         12/05/24         Ander State           Tester         JENC         Ander State           Recorded         12/05/24         Ander State           Tester         JENC         Ander State           Recorded         12/05/24         Ander State           Tester         JENC         Ander<		5/24		
INSTRUMENTS USED DURING       LAB EQUIPMENT       M55,M91,BID00419,TID41100         PREPARATION       INSTRUMENT         Sample ID       Tested       12/05/24         Recorded       12/05/24       Tested         Recorded       12/05/24       Tested         Recorded       12/05/24       Tested         Sample ID       MM/DD/YYYY       01/15/2025         Sample ID       MM/DD/YYYY       01/15/2025         Sample ID       MM/DD/YYYY       Tested         Tested       12/05/24       Tested         Recorded       12/05/24       Tested         Sample ID       Tested       12/05/24         Recorded       12/05/24       TIME         Sample ID       TimE       1 MONTH         Tested       12/05/24       TIME         Sample ID       Tested       12/05/24         Tested       12/05/24       TIME         Sample ID       Tested       12/05/24         Tested       12/05/24       TIME         Tested       12/05/24       TIME         Tested       12/05/24       Tested         Tested       12/05/24       Tested         Tested       12/05/24	Tester JEN0	2		
PREPARATION INSTRUMENT Sample ID Tested 12/05/24 Tester JENC Recorded 12/05/24 EXPIRATION DATE MM/DD/YYYY Sample ID Tester JENC Recorded 12/05/24 SHELF LIFE OF PROJJ Tester JENC Recorded 12/05/24 Time Sample ID Tested 12/05/24 Tester JENC Recorded 12/05/24 Tester JENC Recorde				
Sample ID         Tested       12/05/24         Recorded       12/05/24         EXPIRATION DATE       MM/DD/YYYY         Sample ID       12/05/24         Tester       J2/05/24         Tester       J2/05/24         Sample ID       12/05/24         Tester       J2/05/24         Recorded       12/05/24         SteLF LIFE OF PRODUCT       1 MONTH         Sample ID       1 MONTH         Sample ID       1 MONTH         SteLF LIFE OF PRODUCT       1 MONTH         Sample ID       1 MONTH         Tested       12/05/24         Sample ID       1 MONTH         Tested       12/05/24         Tested       12/05/24         Tested       12/05/24         Tester       JENC         Recorded       12/05/24         Tester       JENC         Recorded       12/05/24         Tester       J2/05/24         Tester       J2/05/24         Tester       J2/05/24         Tester       J2/05/24				M55,M91,BID00419,TID41100
Tested       12/05/24         Tester       JENC         Recorded       12/05/24         EXPIRATION DATE       MM/DD/YYYY         Sample ID       MM/DD/YYYY         Sample ID       MM/DD/YYYY         Sample ID       Nonth         Tester       JENC         Recorded       12/05/24         Tester       JENC         Recorded       12/05/24         Tester       JENC         Recorded       12/05/24         Tester       JENC         Recorded       12/05/24         Sample ID       TIME         Sample ID       TIME         Sample ID       Tested         Tested       12/05/24         Tester       JENC         Recorded       12/05/24         Tester       JENC         Recorded       12/05/24         Tester       JENC         Recorded       12/05/24         Tester       JENC         Recorded       12/05/24		INSTRUMENT		
Tester Recorded         JENC Recorded         JENC 12/05/24           EXPIRATION DATE         MM/DD/YYYY MM/DD/YYYY         01/15/2025           Sample ID Tested         12/05/24         Angen (Comparing (Compari				
Recorded 12/05/24 EXPIRATION DATE MM/DD/YYYY Sample ID Tested 12/05/24 Tester JENC Recorded 12/05/24 SHELF LIFE OF PRODU: 1 MONTH TIME Sample ID Tested 12/05/24 Tester JENC Recorded 12/05/24 Tester JENC Recorded 12/05/24 Tester 12/05/24 Tester 12/05/24 Tester 12/05/24 Tester 12/05/24				
EXPIRATION DATE MM/DD/YYYY MM/DD/YYYY Sample ID Tested 12/05/24 Tester JENC Recorded 12/05/24 SHELF LIFE OF PRODUCE Sample ID Tested 12/05/24 Tester JENC Recorde 12/05/24 Tester JENC Recorde 12/05/24 Tester JENC Recorde 12/05/24 Tester JENC Recorde 12/05/24				
Tested       12/05/24         Tester       JENC         Recorded       12/05/24         SHELF LIFE OF PRODUCT         Sample ID       TIME         Tested       12/05/24         Tester       JENC         Recorded       12/05/24         Tester       JENC         Recorded       12/05/24		MM/DD/YYYY		01/15/2025
Tester JENC Recorded 12/05/24 SHELF LIFE OF PRODUCT 1 MONTH 1 MONTH Sample ID Tested 12/05/24 Tester JENC Recorded 12/05/24 tester JENC Recorded 12/05/24	Sample ID			
Recorded 12/05/24 SHELF LIFE OF PRODUCT 1 MONTH TIME 1 MONTH TIME 1 MONTH 1		5/24		
SHELF LIFE OF PRODUCT 1 MONTH TIME 1 MONTH Sample ID Tested 12/05/24 Tester JENC Recorded 12/05/24 Lot # 41118	Tester JEN0	2		
TIME Sample ID Tested 12/05/24 Tester JENC Recorded 12/05/24 Lot # 4111814				
Tested       12/05/24         Tester       JENC         Recorded       12/05/24	SHELF LIFE OF PRODUCT			1 MONTH
Tester         JENC           Recorded         12/05/24           Lot #         4111814				
Recorded 12/05/24 Lot # 4111814				
Lot # 4111814				
		5/24		
Made 12/05/24	Made 12/05/24			

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

hichard St

**Quality Manager**