



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

Packaged Product: 8645-4L			
SODIUM HYDROXIDE 0.5 NORMAL (4L)			
Lot # 1120847			
Chemical Product: 8645			
Sodium Hydroxide 0.5 Normal NIST Traceable Solution			
Test	Target/UOM	Range	Result
PREPARED TO FORMULATION ON FILE	YES		YES
Sample ID			
Tested 12/09/21			
Tester DHOL			
Recorded 12/09/21			
SAMPLE COLLECTION & HANDLING PER LAB040	YES		YES
Sample ID			
Tested 12/09/21			
Tester DHOL			
Recorded 12/09/21			
DATE OF SAMPLING FOR TEST PURPOSES	MM/DD/YYYY		12/09/21
Sample ID			
Tested 12/09/21			
Tester DHOL			
Recorded 12/09/21			
AMBIENT TEMPERATURE DURING SAMPLING DEGC	25.0 DEG C	10.0 - 35.0	22.1
Sample ID			
Tested 12/09/21			
Tester DHOL			
Recorded 12/09/21			
DATE OF TESTING OF SAMPLE	MM/DD/YYYY MM/DD/YYYY		12/09/21
Sample ID			
Tested 12/09/21			
Tester DHOL			
Recorded 12/09/21			
AMBIENT TEST TEMPERATURE DEGC	20.0 DEG C	15.0 - 30.0	20.0
Sample ID			
Tested 12/09/21			
Tester DHOL			
Recorded 12/09/21			
Actual Normality	0.5000 EQ/L	0.4995 - 0.5005	0.5002
Sample ID			
Tested 12/09/21			
Tester DHOL			
Recorded 12/09/21			
QCSP7: STANDARDIZATION OF AQUEOUS BASES	YES METHOD		YES
Sample ID			
Tested 12/09/21			
Tester DHOL			
Recorded 12/09/21			



Aqua Solutions, Inc.
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 Deer Park, TX 77536
 Website: www.aquasolutions.org

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N.I.S.T. Traceable to SRM 84	YES	YES
	YES	
Sample ID		
Tested	12/09/21	
Tester	DHOL	
Recorded	12/09/21	
APPEARANCE AND COLOR	CLEAR WATER WHITE LIQUID APPEARANCE	PASS
Sample ID		
Tested	12/09/21	
Tester	DHOL	
Recorded	12/09/21	
Actual Density	1.02022 GM/ML	1.01995 - 1.02048 1.02018
Sample ID		
Tested	12/09/21	
Tester	DHOL	
Recorded	12/09/21	
INSTRUMENTS USED DURING PREPARATION	INSTRUMENT	M102,(O)T-VI,M55,BID00488,PI DM91
Sample ID		
Tested	12/09/21	
Tester	DHOL	
Recorded	12/09/21	
EXPIRATION DATE	MM/DD/YY MM/DD/YYYY	12/30/23
Sample ID		
Tested	12/09/21	
Tester	DHOL	
Recorded	12/09/21	
SHELF LIFE OF PRODUCT	2 YEARS TIME	2 YEARS
Sample ID		
Tested	12/09/21	
Tester	DHOL	
Recorded	12/09/21	
Made	12/09/21	

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.

Richard [Signature]