



**HALLIBURTON ENERGY SERV./FANN INST.
 AP DEPT./HALLIBURTON ENGY SERV, P.O. BOX 4960
 Portland, OR, 97208-4960
 2818714000**

Certificate of Analysis / QC Results

Customer PO # : 4517515499

Packaged Product: 1138228 Alkalinity Reagent			
Lot # 320108			
Chemical Product: S2599 SODIUM CARBONATE RGNT ACS ANHYDROUS			
Test	Target/UOM	Range	Result
ASSAY OF MATERIAL	>= 99.5% %		99.94%
INSOLUBLE MATTER	MAX 0.01% %		0.008%
LOSS ON HEATING AT 285 DEG C	MAX 1.0% %		0.42%
CHLORIDE CONTENT	MAX 0.001% PPM		<0.001%
PHOSPHATE CONTENT	MAX 0.001% PPM		<0.001%
SIO2	MAX 0.005% PPB		<0.005%
SULFUR COMPOUNDS (AS S)	MAX 0.003% %		<0.003%
HEAVY METAL (AS PB)	MAX 5 PPM PPM		<5 PPM
IRON	MAX 5 PPM PPM		<5 PPM
CALCIUM CONTENT	MAX 0.03% PPM		<0.03%
MAGNESIUM (MG) CONTENT	MAX 0.005% PPM		<0.005%
POTASSIUM CONTENT	MAX 0.005% PPM		<0.005%
EXPIRATION DATE	MM/DD/YYYY MM/DD/YYYY		02/28/2027
Made 07/20/23			



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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.

This report shall not be reproduced, except in full, without approval of the laboratory.

Aqua Solutions' Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by DNV Certificate Number 51119-2009-AQ-USA-ANAB.

Quality Manager
Aqua Solutions, Inc.