



CHURCH & DWIGHT CO., INC.

325 W. Alchem Road, Green River, Wyoming 82935 USA Phone: (307) 875-2233 Fax (307) 872-8183

SODIUM BICARBONATE - CERTIFICATE OF ANALYSIS

		Lot Number: WW 0298							
		Date of Manufacture: 24-Oct-2020							
		Grade: SBC USP One							
Shipping Information									
Order Number:	P.O. Number: 100120-C&D	Quantity:							
Expiration date: 23-Oct-2023	Customer Service Number: (800) 631-5591								
USP ANALYSIS									
Description	Specification	Result							
Identification-Sodium	No Precipitate with K_2CO_3 . Dense precipitate with $H_2K_2O_7Sb_2$	Passes test							
Identification-Bicarbonate	Effervesces in acid, gas precipitates in $Ca(OH)_2$ TS	Passes test							
Identification-Bicarbonate	Cold solution unchanged/slight colored	Passes test							
Normal Carbonate	Solution does not assume more than a pink color immediately	Passes test							
Insoluble Substances	1:20 Complete and clear	Passes test							
Sodium Bicarbonate Assay	Not less than 99.0 and not more than 100.5 %	100.1 %							
Loss on Drying	Not more than 0.25 %	Not more than 0.25 %							
Limit of Ammonia	Not more than 20 ppm	N/A- See Remarks							
Elemental Impurities- Cadmium *	Not more than 0.5 ppm, LOQ \geq 0.02 ppm	<LOQ ppm							
Lead *	Not more than 0.5 ppm, LOQ \geq 0.1 ppm	<LOQ ppm							
Arsenic *	Not more than 1.5 ppm, LOQ \geq 0.1 ppm	<LOQ ppm							
Mercury *	Not more than 1.0 ppm, LOQ \geq 0.04 ppm	<LOQ ppm							
Aluminum *	Not more than 2 ppm, LOQ \geq 0.05 ppm	0.28 ppm							
Copper *	Not more than 1 ppm, LOQ \geq 0.03 ppm	<LOQ ppm							
Magnesium *	Not more than 0.004 %, LOQ \geq 0.3 ppm	9.71 ppm							
Calcium *	Not more than 0.01 %, LOQ \geq 0.2 ppm	45.92 ppm							
Iron *	Not more than 5.0 ppm, LOQ \geq 0.1 ppm	0.35 ppm							
Chloride	Not more than 0.0150 %	Not more than 0.0150 %							
Limit of Sulfur Compounds	Not more than 0.0150 %	Not more than 0.0150 %							
Other Testing									
Test		Result							
Particle Size Distribution	C&D 000000000314	Cumulative (Rotap) % Retained on Mesh		100	200	325			
		100	200	325		Cumulative % Ret	0	40	76
		Min.-Max.			% Fraction Ret	0	40	36	
		0-2	20-45	60-100		% Fraction Thru	100	60	24
							pH 8.08		
Remarks									
Meets specification of the current USP and FCC. Stability from date of manufacture: 3 years minimum. This product does not require Residual Solvents testing, under the USP-NF-(467) stipulation that based on the manufacturer's knowledge of the manufacturing process and controlled handling & storage of the product there is no potential for the specific toxic solvents to be present. Ammonia is not used in the manufacturing process for Church & Dwight Sodium Bicarbonate. Controlled handling & storage of the product insure that ammonia will not exceed the USP limits. Absence of ammonia is confirmed on each lot via olfactory test. Elemental Impurities limits from USP <232> , Table 2, Oral Drug Products. The remaining Table 2 elements are not known or expected impurities. *Determined by ICP, C&D Method ZTM *74505									
Comments									
Spec #1	Country of origin- United States of America	Calculated values	Carbon Dioxide =	52.4%	Total Alkalai =	36.9%			

Date: 25-Oct-2020

[Signature]

25 Oct 2020

Green River Quality Control Laboratory

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