LAB ALLEY
ESSENTIAL CHEMICALS

Certificate of Analysis

Product: Sodium Stearate, Derived from Palm Oil, RSPO MB, Kosher, Halal
Item Number: SOSTFP
Grade: USP/NF
Lot Number: 5001822/1.1
Manufacture Date: 05/31/2025
Expiration Date: 05/30/2027
Country of Origin: Singapore

Tested Property	Specification	Analysis
Appearance	Powder	Powder
Identification A: Freezing Point of Fatty Acids	≥54ºC	56.2
Identification B: Acid Value of Fatty Acids	196.0 - 210.0 mgKOH/g	208.0
Identification C: Fatty Acid GC Retention Time	Conforms	Conforms
Identification D: Test for Sodium	Conforms	Conforms
Chloride	≤0.10 %	<0.05
Sulphates	≤0.3%	<0.3
Iodine Value	≤1.0 gI2/100g	<1.0
Sodium %	7.4 - 8.5 %	8.0
Alcohol - Insoluble substance	To pass the test	Conforms
Bulk Density	200 - 320 g/L	207
Sieve Residue 100 Mesh	≤0.50 %	0.09
Loss on Drying	≤2.0 %	1.4
Sulphated Ash	22.8 - 26.2 %	23.9
Acidity	0.85 - 1.20 %	1.08
Acidity mL NaOH 0.1M	0.60 - 0.85 mL	0.77
Sodium Stearate Composition C18	≥40.0 %	43.7
Sodium Stearate Composition C16 + C18	≥90.0 %	98.5
Residual Solvents	Conforms	Conforms
Total Aerobic Microbial Count	≤1000 CFU/g	<10

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Mold and Yeast	≤100 CFU/g	<10
Escherichia coli	Absent/g	Absent
Salmonella	Absent/10g	Absent
Nickel	≤5.0 ppm	<0.4
Lead	≤2.0 ppm	0.4
Cadmium	≤1.0 ppm	<0.1
Heavy Metals (Total)	≤10 ppm	<10

CAS RN: 822-16-2

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Note: The information and recommendations of Lab Alley concerning this product are based upon laboratory tests and experience. To the best of our knowledge and belief these are true and accurate, however Lab Alley assumes no obligation or liability for the information in this document. Since conditions of actual use are beyond our control, any recommendations or suggestions regarding merchantability and fitness for particular purposes are made without warranty, expressed or implied.

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