

Certificate of Analysis

Date: November 9, 2023

Product: Cocamidapropyl Betaine
Lot/Batch Number: COCO231024
Manufacture Date: September 2023
Retest Date: September 2025

<u>Analysis Parameters</u>	<u>Specification</u>	<u>Results</u>
PH (As is @ 25°C)	6.0 – 7.0	6.6
Color APHA	< 200	120
Free amine, %	0.50	0.22
Sodium Chloride, %	4.5 – 5.5	5.0
Active (Solids – Sodium Chloride), %	29.0 – 31.0	30.5
Solids (Moisture Balance), %	34.0 – 36.0	35.5
Appearance (@ 25°C)	Clear Liquid	Pass
Infrared Spectrum	Matches standard	Pass
Yeast and molds, cfu/ml	< 10	Pass
Bacteria Counts, cfu/ml	< 10	Pass
Pathogenic Organisms	Absent	Pass

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