

Product: Cocamidapropyl Betaine
Lot/Batch Number: COCO220511
Manufacture Date: December 2021
Retest Date: December 2023

<u>Analysis Parameters</u>	<u>Specification</u>	<u>Results</u>
Appearance (@ 25°C)	Clear Liquid	PASS
Solids (Moisture Balance), %	34.0 – 36.0	35.1
Color APHA	< 200	66
Color Gardner	< 2	0
Odor	Typical	PASS
PH (As is @ 25°C)	5.0 – 7.0	6.5
Infrared Spectrum	Matches standard	PASS
Sodium Chloride, %	4.5 – 6.0	5.0
Activity, %	27.2 – 29.2	27.9
Yeast and molds, cfu/g	10	< 10
Free amine, %	0.50	0.22
Free Fatty Acid, (MW 200), %	0.50	0.08
Glycerine, %	3.0	2.34
DMDMH, Qualitative		PASS
Bacteria Counts	10	<10

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Certificate of Analysis

Date: January 26, 2023

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