

Certificate of Analysis

Date: November 30, 2022

Product: Cocamidapropyl Betaine
Lot/Batch Number: COCO221020
Manufacture Date: April, 2022
Retest Date: April, 2024

<u>Analysis Parameters</u>	<u>Specification</u>	<u>Results</u>
Appearance (@ 25°C)	Clear Liquid	PASS
Solids (Moisture Balance), %	34.0 – 36.0	34.8
Color APHA	< 200	91
Color Gardner	< 2	1
Odor	Typical	PASS
PH (As is @ 25°C)	5.0 – 7.0	6.4
Infrared Spectrum	Matches standard	PASS
Sodium Chloride, %	4.5 – 6.0	4.9
Activity, %	27.2 – 29.2	27.5
Yeast and molds, cfu/g	< 10	< 10
Free amine, %	0.50	0.25
Free Fatty Acid, (MW 200), %	0.50	0.11
Glycerine, %	3.0	2.39
DMDMH, Qualitative		PASS
Bacteria Counts	10	<10

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