

Certificate of Analysis

Date: May 10, 2023

| Product: | Cocamidapropyl Be | etaine | |
|------------------------------------|-------------------|------------------|----------------|
| Lot/Batch Number: | COCO230509 | | |
| Manufacture Date: | February 2023 | | |
| Retest Date: | February 2025 | | |
| Analysis Parameters | | Specification | <u>Results</u> |
| PH (As is @ 25°C) | | 6.0 - 7.0 | 6.5 |
| Color APHA | | < 200 | 140 |
| Free amine, % | | 0.50 | 0.23 |
| Sodium Chloride, % | | 4.5 – 5.5 | 5.1 |
| Active (Solids – Sodium Chloride), | % | 29.0 - 31.0 | 30.4 |
| 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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