

AMANACI Rohstoffe UG & Co. KG, Hauptstrasse 33, 01609 Groeditz, Germany

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Certificate Of Analysis Sheet
MURUMURU BUTTER (COLD PRESSED)
(Astrocaryum Murumuru Seed Butter)

| | | | |
|-----------|---------------|--------------|----------------|
| Customer: | | Origin: | BRAZIL |
| Quantity: | Drum(s) | Cultivation: | Wild Grown |
| Date: | 16.05.18 | Class: | Seed-Oil |
| Order No: | | Extraction: | screw-pressing |
| Batch No: | AM102MUB-2018 | Quality: | homogeneous |

TLC (Identification): Red-orange transparent liquid, when cooled becomes solid below 26°C.

| | | | |
|-------|------------|--------|-------------------|
| Odor: | cocos-like | Taste: | neutral / buttery |
|-------|------------|--------|-------------------|

Solubility: Practically insoluble in ethanol, miscible with chloroform & petroleum spirit.

| TEST | SPECIFICATION | ANALYSIS |
|-------------------------------|---------------|----------|
| Acid Value | 6 maximum | 3.65 |
| Unsaponifiable Matter | 1 – 5% | Complies |
| Peroxide Value | 15.0 maximum | 6.94 |
| FFA | 2.0% maximum | Complies |
| Relative Density | 0.870 – 0.910 | 0.881 |
| Moisture | 3.0% maximum | ≤ 0.5% |
| Sterols | Complies | Complies |
| Light Absorption (270 nan) EP | <3.00 maximum | 1.45 |
| Ratio Absorption | 8 minimum | Complies |

| FATTY ACID COMPOSITION (%) | | |
|----------------------------|-------------|-------|
| C8:0 Caprylic | 2.5 maximum | 2.46 |
| C10:0 Capric | 2.0 maximum | 1.99 |
| C12:0 Lauric | 40 – 55 | 49.10 |
| C14:0 Myristic | 20 – 30 | 23.64 |
| C16:0 Palmitic | 5 – 10 | 6.01 |
| C18:0 Stearic | 5.0 maximum | 2.37 |
| C18:1 Oleic | 10 – 15 | 12.40 |
| C18:2 Linoleic | 5.0 maximum | 1.74 |
| C18:3 Alpha Linolenic | N/A | N/A |
| C20:0 Icosanoic | N/A | N/A |
| C20:1 Icosenoic | N/A | N/A |
| C22:0 Behenic | N/A | N/A |
| C24:0 Lignoceric | N/A | N/A |
| Non-detectable other FA's | Trace | Trace |

Manufacturer: Amanaci Holding Limited, 1 Infinite Loop Cupertino, Manaus-AM
Subsidiary: Amanaci Rohstoffe UG & Co. KG, Hauptstrasse 33, D-01609 Gröditz
Date of Manufacture: Apr. 2018
Re-test date: Okt. 2019
Commercial expiry date: Apr. 2020

The suggested "Re-test" date shown on this certificate reflects a minimum period in which we would expect product to remain in good usable conditions if stored as recommended. Thereafter its continued shelf life may be very much longer and we advise re-test at the indicated date and then every 3-6 months up to a suggested commercial expiry date as shown below. Certificate of analysis does not release customers from their quality responsibility when processing our products. This COA is produced electronically therefore no signature is required.