

## CERTIFICATE OF ANALYSIS

**PRODUCT NAME: COCOA BUTTER, UNREFINED (NATURAL)**

**Batch: S0188** (LOT NUMBER: LOT0016647 )

PRODUCT INCI: THEOBROMA CACAO SEED BUTTER

PRODUCT CODE: K0143

CAS NUMBER: 84649-99-0 / 8002-31-1

EINECS NUMBER: 283-480-6

MANUFACTURING METHOD: EXPELLER PRESSED

MANUFACTURING DATE: 11/10/2023

BEST BEFORE DATE: 11/04/2025

| ANALYTICAL DETAILS         | RANGE %                                | RESULTS |
|----------------------------|--|---------|
| APPEARANCE                 | SOLID BUTTER                           | -       |
| COLOUR                     | YELLOW - IVORY - WHITE                 | -       |
| ODOUR                      | CHARACTERISTIC (LIGHT CHOCOLATE AROMA) | -       |
| PEROXIDE VALUE             | <5.0                                   | 1.0     |
| FREE FATTY ACID            | <2.0                                   | 1.750   |
| IODINE VALUE               | 33.0 – 42.0                            | 37.5    |
| SAPONIFICATION VALUE       | 188.0 – 198.0                          | 193.0   |
| REFRACTIVE INDEX (@ 40DEG) | 1.456 – 1.459                          | 1.457   |
| UNSAAPONIFIABLE MATTER     | <0.40                                  | 0.2     |

| FATTY ACID PROFILE |           | RANGE %     | RESULTS |
|--------------------|-----------|-------------|---------|
| C-CHAIN            | ACID NAME |             |         |
| C16:0              | PALMITIC  | 23.0 – 30.0 | 24.0    |
| C18:0              | STEARIC   | 30.0 – 37.0 | 34.1    |
| C18:1              | OLEIC     | 31.0 – 39.0 | 37.4    |
| C18:2              | LINOLEIC  | 1.5 – 4.5   | 1.5     |

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