SABINSA CORPORATION

FINISHED PRODUCT SPECIFICATION

| Product MONOLAURIN | | Issue No. 4.0 | Supercedes Issue No.3 dtd 09/17/2012 | Page Number Page 1 of 2 |
|-------------------------------|--|------------------|--|-------------------------|
| Prepared by | Approved by | | Effective date | Review date |
| CHAYADEVI Junior Executive | Dr.S Natarajan Executive Vice President | | December 22, 2015 | December 21, 2018 |

Product code 1350

Category Intended for Cosmeceutical application

Botanical/Scientific name Cocos nucifera

CAS No Glyceryl laurate: 142-18-7

Plant part Coconut endosperm (coconut oil)

Preparation type High vacuum distillation and esterification Solvent used in manufacture Methanol, Ethyl acetate and Hexane

Final extract ratio 25:1 to 30:1 Standardization Monolaurin

Excipient used None

Parameters Limit Reference

PHYSICAL

Description Off white powder* Visual

Identification To comply by GC SLL/STP-M-015

Solubility Soluble in alcohol, chloroform and **USP**

insoluble in water

Not more than 5.0% w/w (dried at USP <731> Loss on drying

40°C, under vacuum)

Ash Content Not more than 2.0% w/w USP <561>

Tapped bulk density Between 0.30g/ml and 0.60g/ml USP <616> USP <616>

Between 0.20g/ml and 0.45g/ml Loose bulk density

CHEMICAL

-Content of Monolaurin by GC

Not less than 90.0% w/w on dry

SLL/STP-M-015

basis

OTHERS

Assay

Total heavy metals Not more than 20ppm (μg/g) USP <231> Method II ICP-OES, SLL/STP-H-006** Lead Not more than 3ppm (μg/g) ICP-OES, SLL/STP-H-006** Arsenic Not more than 1ppm (μg/g)

Cadmium Not more than 1ppm ($\mu g/g$) ICP-OES, SLL/STP-H-006** Not more than 0.1ppm (μg/g) ICP-OES, SLL/STP-H-006** Mercury

Residual solvents To comply as per USP USP <467> Residual pesticides To comply as per USP USP <561>

MICROBIAL

Total aerobic microbial count Not more than 5000cfu/g USP <61> Total yeasts and molds count Not more than 100cfu/g USP <61> Escherichia coli USP <62> Negative/10g Salmonella Negative/10g USP <62>

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ParametersLimitReferenceStaphylococcus aureusNegative/10gUSP <62>Pseudomonas aeruginosaNegative/10gUSP <62>

Coliforms Less than 10cfu/g BAM 2001, 8th Edition, Chapter 4

ADDITIONAL INFORMATION

Sanitizing Treatment Non-irradiated and not treated with ETO

Certification status (Kosher/Halal) Halal certified
Genetic Modification Status GMO free
BSE/TSE status BSE / TSE free

Country of origin India
Cultivated or wild crafted Cultivated

Storage condition Store at room temperature

Shelf Life 2 Year(s)

Manufactured by Sami Labs Limited

19/1,19/2 | Main, II Phase, Peenya Industrial Area, Bangalore - 560058,

Karnataka, India

**In-House developed and validated methods

NAP:Not Applicable NAV:Not Available

^{*}Since it is a herbal product, there is likely to be minor color variation because of the geographical and seasonal variations of the raw material.

^{*}Natural products can be hygroscopic and may agglomerate sometimes. It is suggested to sift the product before use.

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