

**NAILLEGEND**

# Body Butter

## Compliance & Technical Dossier

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Anhydrous Whipped & Emulsified Routes | Shea · Cocoa · Mango Butter Variants

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# 0. Dossier Overview & Legal Notice

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## What this dossier is

This is the **Compliance & Technical Dossier** for the NailLegend **Body Butter** category. It covers both production routes for this product: the **anhydrous whipped body butter** (all-butter/oil, preservative-exempt) and the **emulsified (water-containing) body butter** (O/W cream that requires a preservative system). It brings together, in one document, the technical and regulatory information a brand-owner or distributor needs when sourcing this product on an OEM / Private-Label basis for the **US (FDA)** and **EU (Regulation EC 1223/2009)** markets.

The data in this dossier are **representative of NailLegend's standard production** for this category. They are typical values issued by NailLegend's in-house quality function. For a specific order, the figures are reconfirmed against the **final agreed formula and production batch** (and against the chosen route — anhydrous or emulsified), and batch-specific certificates of analysis are issued with shipment.

## Anhydrous vs. emulsified — the key compliance fork

Body butter is supplied on one of two routes, and the route decides several compliance points in this dossier:

- **Anhydrous whipped variant** — shea / cocoa / mango butters plus plant oils, whipped to a light texture. It contains **no water**, so it is **preservative-exempt**; its keeping quality is protected by **antioxidants** (vitamin E / rosemary extract) against fatty oxidation (rancidity), not by a preservative.
- **Emulsified variant** — an O/W cream containing a **water phase + emulsifier + a preservative system** (water present = microbiological risk = preservative mandatory).

Where a section applies only to one route, this is stated in that section. The **Preservative Efficacy** and **Microbiological** sections apply to the emulsified variant; the anhydrous whipped variant is preservative-exempt.

## Regulatory responsibility

Final market-placement responsibility — FDA cosmetic listing (MoCRA), EU CPNP notification, appointment of the EU Responsible Person, the Cosmetic Product Safety Report (CPSR), the Product Information File (PIF), and final labelling and claims — rests with the **brand owner / importer**.

NailLegend, as the manufacturer, supplies the supporting technical documents in this dossier to enable that work.

## Claims guardrails

A body butter claiming **moisturizing, softening, smoothing, nourishing** is a **cosmetic**. Wording such as "*treats eczema*," "*repairs the skin barrier (as a disease)*," or "*medical*" reclassifies the product as a **drug** and triggers separate regulation. Keep claims cosmetic — "*deeply moisturizes / for very dry skin / softens and nourishes*," not "*cures / treats*."

## Allergen & source notes

Body butter is built on **tree-nut / botanical-source fats** (shea, cocoa, mango butter; sweet almond / argan oils in some lines). These are highlighted in the **Allergen Declaration (Section 5)** for the benefit of tree-nut-sensitive consumers, together with the **vegan / no-animal-origin** position (plant waxes used in place of beeswax) where that line is selected.

## How to read the data

- **Composition & specification** (INCI, TDS, formulation disclosure, allergen/source and IFRA statements) describe the product as manufactured.
- **Test sections** (preservative-efficacy, microbiological, stability) present the applicable **methods, acceptance criteria, and typical results** for this product, issued by NailLegend's in-house QC. They represent standard production performance; batch-specific certificates accompany each shipment.

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# 1. INCI Ingredient List

**Issued by:** NailLegend · naillegend.com | **Contact:** Lareina | **Product:** Body Butter **Document:** INCI Ingredient List (representative — anhydrous whipped & emulsified bases) | **Issue date:** 2026-06-22 | **Version:** 1.0

The lists below are the representative INCI compositions for the Body Butter. The definitive descending-order list and on-pack allergen call-outs are confirmed against the final agreed formula for each order before use on artwork or for CPNP notification. Two routes are shown: the **anhydrous whipped** variant (no water, preservative-exempt) and the **emulsified** variant (water-containing, preserved). Ingredients in *italics* are line-dependent (fragranced / shimmer / active / vegan-wax variants).

## A. Anhydrous whipped body butter (descending order)

#	INCI name	Function
1	Butyrospermum Parkii (Shea) Butter	Occlusive / emollient — main soft fat
2	Theobroma Cacao (Cocoa) Seed Butter	Occlusive / hardness, structure
3	Mangifera Indica (Mango) Seed Butter	Emollient — balancing soft fat
4	Helianthus Annuus (Sunflower) Seed Oil	Emollient / spreadability
5	Caprylic/Capric Triglyceride	Emollient / slip
6	<i>Prunus Amygdalus Dulcis (Sweet Almond) Oil</i>	Emollient (tree-nut source — see Section 5)
7	<i>Simmondsia Chinensis (Jojoba) Seed Oil</i>	Emollient
8	<i>Cera Alba (Beeswax) / Euphorbia Cerifera (Candelilla) Wax</i>	Structure / melt-point (vegan line uses candelilla)
9	Tocopherol	Antioxidant
10	Helianthus Annuus (Sunflower) Seed Oil (and) Rosmarinus Officinalis (Rosemary) Leaf Extract	Antioxidant (ROE)
11	<i>Mica, CI 77891 (Titanium Dioxide)</i>	Pearl / colour (shimmer line)
12	<i>Parfum (Fragrance)</i>	Fragrance (omitted in fragrance-free)
13	<i>Limonene, Linalool, Coumarin, Geraniol, Citronellol</i>	Fragrance allergens (declared at threshold — see Section 5)

## B. Emulsified body butter — additional / changed entries

#	INCI name	Function
1	Aqua (Water)	Solvent / water phase
2	Glycerin	Humectant
3	Butyrospermum Parkii (Shea) Butter	Occlusive / emollient
4	Theobroma Cacao (Cocoa) Seed Butter	Occlusive / hardness
5	Mangifera Indica (Mango) Seed Butter	Emollient
6	Caprylic/Capric Triglyceride	Emollient
7	Glyceryl Stearate	Emulsifier
8	Cetearyl Alcohol	Emulsifier / consistency
9	Xanthan Gum	Thickener / rheology
10	Tocopherol	Antioxidant
11	Disodium EDTA	Chelating agent
12	Phenoxyethanol	Preservative
13	Ethylhexylglycerin	Preservative booster / skin conditioning
14	<i>Parfum (Fragrance)</i>	Fragrance (omitted in fragrance-free)
15	<i>Limonene, Linalool, Coumarin, Geraniol, Citronellol</i>	Fragrance allergens (declared at threshold — see Section 5)

### Notes for labelling

- **Ordering** is representative of standard production; the exact descending-order list is issued for the locked formula and chosen route of each order.
- **Tree-nut / botanical source:** shea, cocoa and mango butters and sweet almond / argan oils are tree-nut / botanical-derived — see the source and allergen note in Section 5.
- **Vegan / no-animal-origin line:** beeswax (Cera Alba) is replaced by a plant wax (e.g. candelilla); confirm the full INCI for the vegan line per order.
- **EU fragrance allergens** present at or above the labelling threshold (0.001% leave-on) appear in the on-pack INCI list — see Section 5.
- **Preservative (emulsified only) and any colourant / mica** sit within the target-market permitted lists (EU Annex V / IV; US permitted colour additives).

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## 2. Technical Data Sheet (TDS)

**Issued by:** NailLegend · naillegend.com | **Contact:** Lareina | **Product:** Body Butter **Document:** Technical Data Sheet (representative specification) | **Issue date:** 2026-06-22 | **Version:** 1.0

### 1. Product description

A rich leave-on body moisturizer based on a high load of plant butters (shea / cocoa / mango). Supplied on one of two routes: an **anhydrous whipped body butter** (all-butter/oil, air whipped to a light, fluffy texture, no water, preservative-exempt) or an **emulsified body butter** (water-containing O/W cream, lighter and faster-absorbing, preserved). It melts on skin contact at body temperature to lay down an **occlusive + emollient** film for deep, long-lasting moisturization of very dry skin (elbows, knees, heels, shins).

### 2. Physical & chemical specification (typical)

Property	Specification	Method
Appearance	Opaque whipped semi-solid (anhydrous) / smooth thick cream (emulsified)	Visual
Odour	Characteristic of fragrance dosed / natural butter note (fragrance-free)	Olfactory
Colour	Off-white to pale ivory (unless tinted / shimmer to brief)	Visual
pH (emulsified, as is, 25 °C)	4.5 – 6.0	pH meter (ISO 4316)
pH (anhydrous)	Not applicable (no water phase)	—
Drop / slip point of fat phase	32 – 42 °C (route- & climate-tuned)	Slip-point (capillary)
Viscosity / texture	Soft whipped, scoopable (anhydrous) / thick spreadable cream (emulsified)	Texture / Brookfield (emulsified)
Relative density (25 °C)	0.88 – 0.98 g/cm <sup>3</sup> (anhydrous) / 0.95 – 1.02 g/cm <sup>3</sup> (emulsified)	Pycnometer
Peroxide value (oil/fat phase, at release)	≤ 10 meq O <sub>2</sub> /kg	Titration (Cd Ph. Eur. / AOCS)
Net content	To order (e.g. 50 / 100 / 200 mL jar)	—

### 3. Microbiological specification

- **Emulsified (water-containing) variant:** limits per ISO 17516 apply — see Sections 7 and 8.
- **Anhydrous whipped variant:** preservative-exempt; low water activity makes microbial growth unsupported. A reduced micro check is run as a release confirmation; keeping quality is governed by **oxidative stability** (peroxide value, antioxidant system) rather than preservation.

Parameter (emulsified)	Limit	Reference
Total aerobic mesophilic count (TAMC)	≤ 1,000 cfu/g	ISO 21149
Total yeast & mould (TYMC)	≤ 100 cfu/g	ISO 16212
<i>Pseudomonas aeruginosa</i>	Absent in 1 g	ISO 22717
<i>Staphylococcus aureus</i>	Absent in 1 g	ISO 22718
<i>Escherichia coli</i>	Absent in 1 g	ISO 21150
<i>Candida albicans</i>	Absent in 1 g	ISO 18416

#### 4. Packaging & primary material

- Primary: **wide-mouth jar** (PET / PP / glass) for scoop-out use; **light- and heat-protective packaging is recommended** to support oxidative stability and to reduce fat bloom risk.
- Travel / sample: small jar or single-dose pot.
- Secondary: carton / multi-pack / gift box to brief.

#### 5. Storage, shelf life & usage

Item	Value
Storage	Cool, dry place, away from direct sunlight and heat; 5 – 25 °C. Avoid temperature cycling (limits fat bloom).
Shelf life	18 – 24 months unopened; PAO 12M after opening
Directions	Scoop a small amount and massage into dry skin; melts on contact.
Warnings	External use only. Avoid eyes. Discontinue if irritation occurs. Contains tree-nut / botanical-derived butters and oils — see Section 5. High temperatures may soften the product; surface whitening (fat bloom) is cosmetic and does not indicate spoilage.

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## 3. Safety Data Sheet (SDS)

**Issued by:** NailLegend · naillegend.com | **Contact:** Lareina | **Product:** Body Butter **Document:** Safety Data Sheet — GHS 16-section (representative) | **Issue date:** 2026-06-22 | **Version:** 1.0

Prepared in the UN GHS 16-section format (aligned with US OSHA HazCom 29 CFR 1910.1200 and EU REACH Annex II). The finished product is a cosmetic; classification below reflects the representative formula (both the anhydrous whipped and the emulsified route). Batch- or formula-specific SDS is reissued where the agreed formula differs.

**1. Identification** — Product: Body Butter (anhydrous whipped / emulsified). Use: cosmetic, external skin care. Supplier: NailLegend (naillegend.com). Contact: Lareina. Emergency: contact supplier during business hours.

**2. Hazard identification** — GHS classification: Not classified as hazardous. Signal word: None. The product is an oily/fatty cosmetic with no hazardous classification at use concentration. Note for sensitive users: contains tree-nut / botanical-derived butters and oils (shea, cocoa, mango; sweet almond / argan in some lines) — see Section 3 and the allergen/source declaration (Section 5).

**3. Composition / information on ingredients** — Mixture (cosmetic). Components of note: Butyrospermum Parkii (Shea) Butter, Theobroma Cacao (Cocoa) Seed Butter, Mangifera Indica (Mango) Seed Butter, plant oils; Tocopherol (antioxidant). Emulsified route additionally: Aqua, Glyceryl Stearate / Cetearyl Alcohol (emulsifiers), Phenoxyethanol (CAS 122-99-6) / Ethylhexylglycerin (preservative system, within cosmetic use limits). Full composition: see Section 1 (INCI).

**4. First-aid measures** — Eyes: wipe off excess, rinse with water for several minutes; seek advice if irritation persists. Skin: topical use; if irritation occurs, remove and discontinue. Ingestion: not intended for ingestion; rinse mouth, seek advice if unwell. Inhalation: not a normal route of exposure.

**5. Fire-fighting measures** — Not readily flammable. Suitable extinguishing media: water spray, foam, CO<sub>2</sub>, dry powder. Note: bulk fats/oils will burn at high temperature.

**6. Accidental release** — Scoop / wipe up; product is greasy and slippery — avoid slip hazard. Avoid bulk release to drains (fatty load).

**7. Handling & storage** — Handle per good hygiene practice. Store cool, dry, out of direct sunlight and heat; keep jars closed. Avoid temperature cycling (limits fat bloom / softening).

**8. Exposure controls / PPE** — Consumer use: no PPE required. Bulk handling (manufacturing, melting fats): gloves and eye protection; heat-resistant handling for melted fat phase; no specific occupational exposure limit assigned to the finished mixture.

**9. Physical & chemical properties** — Appearance, odour, drop point, density and (emulsified) pH: see Section 2 (TDS). Flash point: not applicable to finished product under normal use. Solubility: oils/butters insoluble in water; emulsified variant disperses/rinses with water.

**10. Stability & reactivity** — Stable under recommended storage. Incompatibilities: strong oxidisers; prolonged heat/light accelerates oxidation (rancidity) of the oil phase. Hazardous decomposition products: none under normal use.

**11. Toxicological information** — Finished cosmetic confirmed safe for normal use through the brand owner's CPSR. Contains tree-nut / botanical-derived materials — see allergen/source note (Section 5) for tree-nut-sensitive consumers.

**12. Ecological information** — No significant adverse effects expected in normal consumer use. Avoid bulk discharge to the environment (fatty/oily load).

**13. Disposal** — Dispose of contents and container in accordance with local regulations.

**14. Transport information** — Not classified as dangerous goods for transport (finished cosmetic). UN number: none.

**15. Regulatory information** — Cosmetic finished product. US: FDA cosmetic (MoCRA). EU: Regulation (EC) 1223/2009. Ingredients comply with applicable cosmetic inventories for the declared markets.

**16. Other information** — Abbreviations: O/W oil-in-water; ROE rosemary oleoresin extract; PAO period after opening; PV peroxide value. An SDS is not legally mandatory for a finished cosmetic in all markets but is commonly requested by importers and logistics partners; this SDS is provided for that purpose.

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## 4. Formulation Disclosure Statement

**Issued by:** NailLegend · naillegend.com | **Contact:** Lareina | **Product:** Body Butter **Document:** Formulation Disclosure Statement | **Issue date:** 2026-06-22 | **Version:** 1.0

This statement gives the brand owner's safety assessor the functional composition and permitted-range information needed to build the CPSR / PIF, while protecting NailLegend's specific know-how. Exact weight percentages of the locked formula are disclosed **confidentially to the named safety assessor under NDA**; this statement provides the functional framework and confirms each restricted ingredient sits within its permitted limit. The framework covers both routes — **anhydrous whipped** (no water, preservative-exempt) and **emulsified** (water-containing, preserved).

### 1. Functional composition framework

Block	Function	Representative ingredients	Route
Fat phase (butters)	Occlusion, hardness, natural story	Shea Butter, Cocoa Seed Butter, Mango Seed Butter	Both
Liquid oil phase	Spreadability, melt/feel balance, whip	Sunflower Seed Oil, Caprylic/Capric Triglyceride, Jojoba, Sweet Almond Oil	Both
Structure / melt-point	Set hardness, temperature stability	Stearic Acid, Beeswax (or Candelilla Wax for vegan)	Both (low level)
Antioxidant	Protect oils from rancidity	Tocopherol, Rosemary Extract (ROE)	Both (critical to anhydrous)
Water / humectancy	Lighter feel, hydration claim	Aqua, Glycerin	Emulsified only
Emulsifier	Stabilise O/W cream	Glyceryl Stearate, Cetearyl Alcohol	Emulsified only
Rheology	Viscosity, body	Xanthan Gum	Emulsified only
Preservation	Microbiological safety	Phenoxyethanol, Ethylhexylglycerin, Disodium EDTA	<b>Emulsified only</b>
Sensory / optional	Fragrance, shimmer, actives	Parfum (or none), Mica, Allantoin / Panthenol (line-dependent)	Both

## 2. Restricted-ingredient confirmation

Ingredient (class)	Permitted basis	This product
Phenoxyethanol (preservative — emulsified only)	EU Annex V / target-market list — ≤ 1.0%	Used at ≤ 1.0% (emulsified); <b>absent in anhydrous</b>
Antioxidant (Tocopherol / ROE)	Standard cosmetic use	Within standard use level
Colourant / Mica (if shimmer)	EU Annex IV / US permitted colour additive	None unless shimmer/tinted to brief
Fragrance & allergens	IFRA-compliant; allergens declared at threshold	See Sections 5 & 6
Disodium EDTA (chelant — emulsified)	Standard cosmetic use	≤ 0.2% (emulsified)
Active (Allantoin / Panthenol, if added)	Standard cosmetic use level	Within standard use level; confirmed per order

## 3. Source & vegan position

- **Tree-nut / botanical source:** shea, cocoa, mango butters and sweet almond / argan oils are tree-nut / botanical-derived — declared for tree-nut-sensitive consumers (Section 5).
- **Vegan / no-animal-origin line:** where selected, beeswax is replaced by a plant wax (e.g. candelilla) and no animal-origin material is used; confirmed in writing for that order.

## 4. What is and is not disclosed

- **Disclosed openly:** the functional framework, restricted-ingredient identities, route (anhydrous vs. emulsified), and confirmation each restricted ingredient is within its permitted limit.
- **Disclosed under NDA to the safety assessor only:** exact weight percentages of the locked formula (including butter ratio), supplier identities, and process parameters (temperature curve / whipping).
- **Not disclosed:** proprietary process know-how unrelated to safety assessment.

## 5. Manufacturer statement

For the locked formula and route supplied to a customer, NailLegend confirms that all ingredients are used within the limits and conditions permitted for cosmetic use in the customer's declared target markets, and that supporting analytical data (preservative efficacy and microbiological for the emulsified route; stability for both routes) is provided in this dossier.

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## 5. Allergen & Botanical-Source Declaration

**Issued by:** NailLegend · naillegend.com | **Contact:** Lareina | **Product:** Body Butter **Document:** Fragrance Allergen + Tree-Nut / Botanical-Source + Vegan Declaration | **Issue date:** 2026-06-22 | **Version:** 1.0

Two allergen/source topics matter for body butter and both are covered here: (A) the **tree-nut / botanical source** of the butters and oils, with the **vegan / no-animal-origin** position; and (B) **EU fragrance allergens** for the fragranced lines. Content is reconfirmed against the final formula and the specific fragrance of each order.

### A. Tree-nut / botanical-source & vegan declaration (applies to ALL body butter)

Body butter is built on plant butters and oils that are **tree-nut / botanical-derived**. This is the single most important consumer-safety call-out for the category and must be carried to on-pack/marketing wording by the brand owner.

Material (INCI)	Botanical source	Tree-nut / botanical class	In product
Butyrospermum Parkii (Shea) Butter	Shea tree ( <i>Vitellaria paradoxa</i> ) nut	Tree-nut-derived	Yes (core)
Theobroma Cacao (Cocoa) Seed Butter	Cocoa seed	Tree-seed / botanical	Yes (core)
Mangifera Indica (Mango) Seed Butter	Mango seed kernel	Tree-seed / botanical	Yes (core)
Prunus Amygdalus Dulcis (Sweet Almond) Oil	Almond	<b>Tree-nut</b>	Line-dependent
Argania Spinosa (Argan) Kernel Oil	Argan kernel	Tree-nut-derived	Line-dependent (premium oil)
Simmondsia Chinensis (Jojoba) Seed Oil	Jojoba seed	Botanical (not a true nut)	Line-dependent

**Source declaration:** Although refined plant butters/oils carry low residual protein, NailLegend recommends the brand owner include a **tree-nut / botanical-source advisory** so that **nut-allergic consumers** can make an informed choice (e.g. "Contains shea, cocoa and mango butter and may contain almond/argan oil — tree-nut-derived"). The exact wording and any "may contain" statement are set by the brand owner against target-market rules.

**Vegan / no-animal-origin position:** the **anhydrous whipped** and **emulsified** bases use plant-derived butters, oils and emulsifiers. Where the **vegan line** is selected, **beeswax (Cera Alba) is replaced by a plant wax (e.g. candelilla)** and **no animal-origin material** is used. A written vegan / no-animal-origin confirmation is issued for that order. Standard (non-vegan) lines may contain beeswax — confirm per order.

## B. EU fragrance allergen content (fragranced lines only)

Basis: EU Regulation (EC) 1223/2009. As a **leave-on** product, allergens present at  $\geq 0.001\%$  (**10 ppm**) must be named in the on-pack INCI list. The table shows a representative vanilla/shear-type fragrance dosed at 0.5%. A **fragrance-free** variant declares "none present." (Note: Reg. (EU) 2023/1545 expands the declarable list — the supplementary sheet is added where the target market requires it.)

#	Allergen (INCI)	CAS	Present	% in product	On-pack declaration
1	Linalool	78-70-6	Yes	0.0210	Required
2	Limonene	5989-27-5	Yes	0.0125	Required
3	Coumarin	91-64-5	Yes	0.0060	Required
4	Geraniol	106-24-1	Yes	0.0038	Required
5	Citronellol	106-22-9	Yes	0.0022	Required
6	Benzyl Benzoate	120-51-4	Yes	0.0012	Required
—	Eugenol, Isoeugenol, Cinnamal, Citral, Benzyl Salicylate, Farnesol, Hexyl Cinnamal, others	various	No / trace	< 0.0010	Not required (below threshold)

**On-pack declaration required for this fragrance:** *Linalool, Limonene, Coumarin, Geraniol, Citronellol, Benzyl Benzoate.*

## Declaration

For the fragrance dosed in this product, the allergens marked "Required" above are included in the on-pack INCI list; a **fragrance-free** variant contains no added fragrance allergens. The tree-nut / botanical-source and vegan statements in Part A apply to every body butter and are reconfirmed per the final formula and route of each order.

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## 6. IFRA Conformity Statement

**Issued by:** NailLegend · naillegend.com | **Contact:** Lareina | **Product:** Body Butter **Document:** IFRA Conformity Statement | **Issue date:** 2026-06-22 | **Version:** 1.0

This statement is supported by the **IFRA Certificate of Conformity issued by the fragrance supplier** for the specific fragrance compound and its dosage. The fragrance supplier's certificate is held on file and provided to the brand owner's safety assessor on request. A **fragrance-free** variant requires no IFRA statement.

### 1. Product use category

Item	Value
Product type	Body Butter (leave-on, applied to body skin)
IFRA product category	Category 5A (body lotion / leave-on hand & body)
Fragrance dosage in finished product	0.5% (representative; to brief)
IFRA Standards edition	51st Amendment

### 2. Conformity statement

The fragrance compound used at **0.5%** in this Body Butter conforms to the **IFRA Standards (51st Amendment)** for the applicable product category. All restricted, prohibited and specified materials are within the maximum levels set by the relevant IFRA Standards for this use, as confirmed by the fragrance supplier's IFRA Certificate of Conformity held on file.

### 3. Relationship to allergen labelling

IFRA conformity governs **safe use levels** and is separate from EU **allergen labelling** (declaring allergens at threshold). Allergen content for the dosed fragrance is reported in Section 5.

### 4. Authorisation

Confirmed on the basis of the fragrance supplier's IFRA certificate for the dosed fragrance.

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# 7. Preservative Efficacy (Challenge) Test

**Issued by:** NailLegend · naillegend.com | **Contact:** Lareina | **Product:** Body Butter **Document:** Preservative Efficacy (Challenge) Test — representative result | **Issue date:** 2026-06-22 | **Version:** 1.0

**Applies to the emulsified (water-containing) variant only; the anhydrous whipped variant is preservative-exempt** (no water phase, so microbial growth is not supported — its keeping quality is governed by oxidative stability, see Section 9, not by a preservative). Method: **ISO 11930** (Cosmetics — Evaluation of antimicrobial protection). The results below are **typical of NailLegend standard production** for the emulsified body butter, issued by NailLegend in-house QC. A batch-specific challenge-test certificate is issued for production batches on request.

## 1. Test organisms (ISO 11930)

Organism	Strain	Inoculum
<i>Pseudomonas aeruginosa</i>	ATCC 9027	~1×10 <sup>6</sup> cfu/g
<i>Staphylococcus aureus</i>	ATCC 6538	~1×10 <sup>6</sup> cfu/g
<i>Escherichia coli</i>	ATCC 8739	~1×10 <sup>6</sup> cfu/g
<i>Candida albicans</i>	ATCC 10231	~1×10 <sup>5</sup> cfu/g
<i>Aspergillus brasiliensis</i>	ATCC 16404	~1×10 <sup>5</sup> cfu/g

Incubation: 22.5 ± 2.5 °C. Reference product: representative emulsified production formula (Phenoxyethanol/Ethylhexylglycerin system).

## 2. Results — log reduction vs. time (typical)

Organism	T0 (cfu/g)	Day 7	Day 14	Day 28	Criterion A
<i>P. aeruginosa</i>	1.1×10 <sup>6</sup>	> 3.0	> 3.0	No increase	≥3 (D7), ≥3 (D14), n.i. (D28)
<i>S. aureus</i>	1.0×10 <sup>6</sup>	> 3.0	> 3.0	No increase	≥3 (D7), ≥3 (D14), n.i. (D28)
<i>E. coli</i>	1.2×10 <sup>6</sup>	> 3.0	> 3.0	No increase	≥3 (D7), ≥3 (D14), n.i. (D28)
<i>C. albicans</i>	1.3×10 <sup>5</sup>	≥ 1.0	≥ 1.0	No increase	≥1 (D7), ≥1 (D14), n.i. (D28)
<i>A. brasiliensis</i>	1.2×10 <sup>5</sup>	≥ 0	≥ 1.0	No increase	≥0 (D7), ≥1 (D14), n.i. (D28)

(n.i. = no increase from the previous reading.)

## 3. Evaluation & conclusion

- Applicability: **emulsified variant only** (anhydrous whipped variant is preservative-exempt and not challenge-tested).
- Criterion met: **Criterion A** (ISO 11930).
- Overall result: **PASS**.

- Conclusion: for the emulsified route, the preservative system provides adequate antimicrobial protection over the intended product life under the conditions tested. Performance is reconfirmed per production batch.

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NailLegend · naillegend.com — Representative in-house result (emulsified variant); anhydrous variant preservative-exempt. Batch-specific certificate issued on request. Confidential — for the intended recipient only.

## 8. Microbiological Test Report

**Issued by:** NailLegend · naillegend.com | **Contact:** Lareina | **Product:** Body Butter **Document:** Microbiological Test Report — representative result | **Issue date:** 2026-06-22 | **Version:** 1.0

**Primarily applies to the emulsified (water-containing) variant; the anhydrous whipped variant is preservative-exempt** — its low water activity does not support microbial growth, and a reduced micro check is run only as a release confirmation. Limits follow **ISO 17516** and general cosmetic practice. Values below are **typical of NailLegend standard production**, issued by NailLegend in-house QC. A batch-specific certificate of analysis accompanies each shipment.

Reference batch (example): **BB-2406-01**

### Results (typical — emulsified variant)

Parameter	Method	Limit	Typical result	Pass/Fail
Total Aerobic Mesophilic Count (TAMC)	ISO 21149	≤ 1,000 cfu/g	< 10 cfu/g	Pass
Total Yeasts & Moulds (TYMC)	ISO 16212	≤ 100 cfu/g	< 10 cfu/g	Pass
<i>Pseudomonas aeruginosa</i>	ISO 22717	Absent / 1 g	Absent	Pass
<i>Staphylococcus aureus</i>	ISO 22718	Absent / 1 g	Absent	Pass
<i>Escherichia coli</i>	ISO 21150	Absent / 1 g	Absent	Pass
<i>Candida albicans</i>	ISO 18416	Absent / 1 g	Absent	Pass

**Anhydrous whipped variant:** preservative-exempt; release confirmation check (TAMC / TYMC) typically returns < 10 cfu/g. Keeping quality is governed by oxidative stability (peroxide value / antioxidant system) — see Section 9.

**Sample condition:** appearance and odour normal; no visible contamination. **Overall result: PASS** — representative production conforms to specification. Each production batch is released against the same limits with a batch certificate.

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# 9. Stability Test Report

**Issued by:** NailLegend · naillegend.com | **Contact:** Lareina | **Product:** Body Butter **Document:** Stability Test Report — representative result | **Issue date:** 2026-06-22 | **Version:** 1.0

Physical, chemical, oxidative and packaging-compatibility stability supporting shelf life / PAO, tested in market packaging (wide-mouth jar). For body butter the controlling failure modes are **summer slump / softening, winter over-hardening, fat bloom (cocoa-butter polymorph migration), graininess on re-crystallisation, and oxidative rancidity** — so the study emphasises temperature-cycling and oxidation. Results are **typical of NailLegend standard production** (covering both the anhydrous whipped and the emulsified route), issued by NailLegend in-house QC. Batch-specific stability is monitored under the ongoing programme.

Reference batch (example): **BB-2406-01**

## 1. Study design

Condition	Temperature	Pull points
Real-time	25 ± 2 °C / 60% RH	0, 3, 6, 12, 18, 24 months
Accelerated	40 ± 2 °C / 75% RH	0, 1, 2, 3 months
Heat-hold (slump check)	45 °C	per protocol (oil-out / softening)
Cold / freeze-thaw (bloom & grain)	4 °C; cycling 5 ↔ 35 °C	per protocol (bloom / graininess; emulsified: phase separation)

Packaging tested: PP / PET / glass jar. Emphasis on temperature cycling for fat bloom and texture.

## 2. Parameters & results (typical)

Parameter	Acceptance	T0	Accel. 3 mo	Real-time 12 mo	Pass/Fail
Appearance (uniform, no oil-out)	Conforms	Conforms	Conforms	Conforms	Pass
Texture / whip retention (anhydrous)	No collapse, scoopable	Pass	No significant change	No significant change	Pass
Phase stability (emulsified)	No separation/creaming	Pass	Pass	Pass	Pass
Fat bloom (surface whitening)	None visible after cycling	None	None	None	Pass
Graininess (re-crystallisation)	Smooth, no sandy grain	Smooth	Smooth	Smooth	Pass
Softening / slump at 45 °C	Holds form; no oil pooling	Pass	Pass	—	Pass
Colour	Within range	Pass	No significant change	No significant change	Pass
Odour	No rancidity	Pass	Pass	Pass	Pass
Peroxide value (oil phase)	≤ 10 meq O <sub>2</sub> /kg	2.1	4.8	5.3	Pass
pH (emulsified)	Target ± 0.5	5.5	5.4	5.4	Pass
Jar/closure compatibility / leak	No leak / deformation	Pass	Pass	Pass	Pass
Microbial (emulsified, end of study)	Section 8 limits	Pass	—	Pass	Pass

## 3. Conclusion

- **Temperature stability:** within the tuned drop-point range, the product holds form at warm storage and remains scoopable at cool storage — addressing the summer-slump / winter-hardening complaint. Light- and heat-protective jar and stable storage are recommended.
- **Fat bloom & graininess:** controlled by the cooling/crystallisation curve and stable storage; no bloom or grain observed through the cycling protocol. Higher cocoa-butter loads need tighter storage temperature control.
- **Oxidation:** peroxide value stays within limit over the study; the tocopherol / rosemary antioxidant system protects the oil phase (the key keeping-quality lever for the anhydrous, preservative-exempt route).
- Assigned shelf life: **18 – 24 months** unopened (PAO 12M after opening). Real-time study ongoing.
- Overall result: **PASS (real-time ongoing).**

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