

NAILLEGEND

Massage Lotion

Compliance & Technical Dossier

Standard Glide · High-Glide · Fast-Absorbing · Cooling/Warming · Aromatherapy | O/W Emulsion

Issued by: **NailLegend** · naillegend.com

Contact: Lareina · info@naillegend.com

WhatsApp: +852 6759 2416

Issue date: 2026-06-22 · Version 1.0



WeChat



WhatsApp

CONFIDENTIAL — for the intended recipient only. Representative technical & compliance data.

Table of Contents

| | |
|---|----|
| 0. Dossier Overview & Legal Notice | 1 |
| 1. INCI Ingredient List | 3 |
| 2. Technical Data Sheet (TDS) | 5 |
| 3. Safety Data Sheet (SDS) | 7 |
| 4. Formulation Disclosure Statement | 9 |
| 5. Fragrance Allergen Declaration | 11 |
| 6. IFRA Conformity Statement | 13 |
| 7. Preservative Efficacy (Challenge) Test | 14 |
| 8. Microbiological Test Report | 16 |
| 9. Stability Test Report | 17 |

0. Dossier Overview & Legal Notice

Issued by: NailLegend · naillegend.com | **Contact:** Lareina | **Product:** Massage Lotion **Document:** Compliance & Technical Dossier — Overview | **Issue date:** 2026-06-22 | **Version:** 1.0

What this dossier is

This is the **Compliance & Technical Dossier** for the NailLegend **Massage Lotion** category — an **oil-in-water (O/W) emulsion** for professional and retail body massage (standard glide, high-glide, fast-absorbing, cooling/warming, and aromatherapy lines). It brings together, in one document, the technical and regulatory information a brand-owner, spa distributor or salon buyer 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 batch-specific certificates of analysis are issued with shipment.

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 massage lotion claiming **glide, moisturizing, softening, soothing, relaxing, refreshing or cooling/warming sensation** is a **cosmetic**. Wording such as "*relieves muscle pain*," "*treats inflammation*," "*anti-inflammatory*," "*cures soreness*," or "*medical / therapeutic*" reclassifies the product as a **drug** and triggers separate regulation. This is especially sensitive on **cooling / warming lines containing menthol or camphor**, where a pain-relief claim moves the product into US OTC drug territory. Keep claims cosmetic — "*glides smoothly / soothing massage / cooling sensation / relaxing*," not "*relieves pain / treats / anti-inflammatory*."

How to read the data

- **Composition & specification** (INCI, TDS, formulation disclosure, allergen 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 water-containing emulsion, issued by NailLegend's in-house QC. They represent standard production performance; batch-specific certificates accompany each shipment.

1. INCI Ingredient List

Issued by: NailLegend · naillegend.com | **Contact:** Lareina | **Product:** Massage Lotion **Document:** INCI Ingredient List (representative — O/W emulsion base) | **Issue date:** 2026-06-22 | **Version:** 1.0

The list below is the representative INCI composition for the Massage Lotion. 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. Ingredients in *italics* are line-dependent (cooling/warming, aromatherapy or fragrance-free variants).

INCI declaration (descending order)

| # | INCI name | Function |
|----|---|---|
| 1 | Aqua (Water) | Solvent / continuous (water) phase |
| 2 | Glycerin | Humectant |
| 3 | Caprylic/Capric Triglyceride | Emollient — glide / spreadability |
| 4 | Butylene Glycol | Humectant / solvent |
| 5 | Cetearyl Alcohol | Co-emulsifier / consistency (fatty alcohol) |
| 6 | Glyceryl Stearate | Emulsifier (O/W) |
| 7 | PEG-100 Stearate | Emulsifier (O/W, SE pair) |
| 8 | <i>Simmondsia Chinensis (Jojoba) Seed Oil</i> | Emollient / nourishing (plant-oil line) |
| 9 | <i>Prunus Amygdalus Dulcis (Sweet Almond) Oil</i> | Emollient (plant-oil line) |
| 10 | Isopropyl Myristate | Emollient — light, fast spread |
| 11 | Stearic Acid | Consistency / structure |
| 12 | Xanthan Gum | Thickener / emulsion stabiliser |
| 13 | <i>Menthol</i> | Cooling agent (cooling line) |
| 14 | <i>Camphor</i> | Warming/cooling sensate (warming line) |
| 15 | Tocopheryl Acetate (Vitamin E) | Antioxidant / skin conditioning |
| 16 | Panthenol | Skin conditioning |
| 17 | Disodium EDTA | Chelating agent |
| 18 | Phenoxyethanol | Preservative |
| 19 | Ethylhexylglycerin | Preservative booster / skin conditioning |
| 20 | <i>Parfum (Fragrance)</i> | Fragrance (omitted in fragrance-free) |
| 21 | <i>Limonene, Linalool, Citronellol, Geraniol</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 of each order (oil-phase ratio shifts by line: high-glide vs. fast-absorbing).
- **EU fragrance allergens** present at or above the labelling threshold (0.001% leave-on) appear in the on-pack INCI list — see Section 5.
- **Cooling / warming lines:** *Menthol / Camphor* identity and level are disclosed; keep on-pack claims cosmetic (sensation), not pain-relief (see Section 0 and 3).
- **Preservative and any colourant** sit within the target-market permitted lists (EU Annex V / IV; US permitted colour additives).

NailLegend · naillegend.com — Representative INCI composition; confirmed per final formula. Confidential — for the intended recipient only.

2. Technical Data Sheet (TDS)

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

1. Product description

A leave-on / wipe-off cosmetic **oil-in-water (O/W) emulsion** for professional and at-home body massage. It is designed for the signature "**glide** → **absorb**" experience: an oil phase provides controlled spreadability while the water phase keeps the finish light and non-greasy. Function depends on the line: balanced **standard glide**, **high-glide** (raised oil phase) for long/deep massage, **fast-absorbing** (raised water phase) for quick service, **cooling/warming** (menthol/camphor) for sport/recovery themes, or **aromatherapy** (essential-oil fragrance system).

2. Physical & chemical specification (typical)

| Property | Specification | Method |
|--|--|-------------------------------|
| Appearance | Smooth, homogeneous milky-white lotion; no phase separation | Visual |
| Odour | Characteristic of fragrance dosed / odourless (fragrance-free) | Olfactory |
| Colour | White to off-white (unless tinted to brief) | Visual |
| pH (as is, 25 °C) | 5.0 – 6.0 (skin-friendly, supports preservative efficacy) | pH meter (ISO 4316) |
| Viscosity (25 °C) | 3,000 – 15,000 mPa·s (pumpable lotion → richer cream by line) | Brookfield RVT, sp.4 @ 20 rpm |
| Relative density (25 °C) | 0.97 – 1.01 g/cm ³ | Pycnometer |
| Centrifuge stability (3,000 rpm, 30 min) | No separation / no oiling-off | In-house |
| Net content | To order (e.g. 250 mL pump / 1 L / 5 L salon size) | — |

3. Microbiological specification (water-containing product)

| Parameter | 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 |

Typical batch results and preservation performance are reported in Sections 7 and 8. As a water-containing emulsion, this product is preserved and microbiologically controlled.

4. Packaging & primary material

- **Retail:** pump bottle / disc-top bottle (HDPE/PET); tube; gift-set formats to brief.
- **Professional / salon:** 1 L pump, 5 L jug, or bulk drum (service-consumable sizes).
- Secondary: carton / multi-pack / gift box to brief. Water-containing emulsion — consider light-protective and temperature-controlled storage and transport.

5. Storage, shelf life & usage

| Item | Value |
|------------|---|
| Storage | Cool, dry place, away from direct sunlight; 5 – 30 °C; avoid freezing |
| Shelf life | 24 months unopened; PAO 12M after opening |
| Directions | Dispense a small amount, warm between hands, apply and massage into skin until absorbed. |
| Warnings | External use only. Avoid eyes and broken skin. Discontinue if irritation occurs. Cooling/warming (menthol/camphor) lines: avoid mucous membranes; keep out of reach of children; cosmetic sensation only — not for pain treatment. |

NailLegend · naillegend.com — Representative specification; batch-specific values confirmed per production. Confidential — for the intended recipient only.

3. Safety Data Sheet (SDS)

Issued by: NailLegend · naillegend.com | **Contact:** Lareina | **Product:** Massage Lotion **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. Batch- or formula-specific SDS is reissued where the agreed formula differs.

- 1. Identification** — Product: Massage Lotion (O/W emulsion). Use: cosmetic, external skin care / professional massage. Supplier: NailLegend (naillegend.com). Contact: Lareina. Emergency: contact supplier during business hours.
- 2. Hazard identification** — GHS classification: Not classified as hazardous (standard / aromatherapy lines). Cooling/warming lines containing menthol/camphor: may be classified Skin Irrit. 2 — H315 / Eye Irrit. 2 — H319 depending on sensate level. Signal word: None (standard) / Warning (high-sensate lines). Precautionary statements (sensate lines): P264, P280, P305+P351+P338, P337+P313. Not a fire hazard (water-based emulsion).
- 3. Composition / information on ingredients** — Mixture (cosmetic). Components of note: Phenoxyethanol (CAS 122-99-6), Ethylhexylglycerin (CAS 70445-33-9), Menthol (CAS 89-78-1, cooling line only), Camphor (CAS 76-22-2, warming line only) — present only in the relevant lines and within cosmetic use limits. Full composition: see Section 1 (INCI).
- 4. First-aid measures** — Eyes: rinse with water for several minutes; remove contact lenses; seek advice if irritation persists. Skin: topical use; if irritation occurs, rinse and discontinue. Ingestion: rinse mouth, do not induce vomiting, seek advice (note menthol/camphor lines if ingested in quantity). Inhalation: not a normal route of exposure.
- 5. Fire-fighting measures** — Not flammable (water-based emulsion). Suitable extinguishing media: water spray, foam, CO₂, dry powder.
- 6. Accidental release** — Wipe up; product is oily/slippery — avoid slip hazard. Avoid bulk release to drains.
- 7. Handling & storage** — Handle per good hygiene practice. Store cool, dry, out of direct sunlight; avoid freezing (may break the emulsion); keep containers closed until use.
- 8. Exposure controls / PPE** — Consumer / professional massage use: no PPE required. Bulk handling (manufacturing): gloves and eye protection; no specific occupational exposure limit assigned to the finished mixture.
- 9. Physical & chemical properties** — Appearance, odour, pH, density and viscosity: see Section 2 (TDS). Flash point: not applicable (water-based emulsion). Solubility: dispersible in water (O/W emulsion).
- 10. Stability & reactivity** — Stable under recommended storage. Incompatibilities: strong oxidisers; extreme heat/freeze can destabilise the emulsion. Hazardous decomposition products: none under normal use.

11. Toxicological information — Finished cosmetic confirmed safe for normal use through the brand owner's CPSR. Menthol/camphor lines may be irritating to eyes, mucous membranes and broken skin; not for use on damaged skin or near eyes.

12. Ecological information — No significant adverse effects expected in normal consumer use. Avoid bulk discharge to the environment.

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); pain-relief claims with menthol/camphor would move the product into OTC drug scope — kept cosmetic. EU: Regulation (EC) 1223/2009. Ingredients comply with applicable cosmetic inventories for the declared markets.

16. Other information — Abbreviations: O/W oil-in-water; PAO period after opening; SE self-emulsifying. 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.

NailLegend · naillegend.com — Representative SDS for the finished cosmetic. Confidential — for the intended recipient only.

4. Formulation Disclosure Statement

Issued by: NailLegend · naillegend.com | **Contact:** Lareina | **Product:** Massage Lotion **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 — and the **emulsifier system, HLB pairing and homogenizing parameters** that make the emulsion stable — 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.

1. Functional composition framework (O/W emulsion)

| Block | Function | Representative ingredients |
|-------------------------------|--|---|
| Water phase (continuous) | Carrier, humectancy | Aqua, Glycerin, Butylene Glycol |
| Oil phase (emollient / glide) | Spreadability, skin feel | Caprylic/Capric Triglyceride, Isopropyl Myristate, plant oils (jojoba / sweet almond) |
| Consistency / structure | Body, richness | Cetearyl Alcohol, Stearic Acid |
| Emulsifier system | Bind oil & water; emulsion stability | Glyceryl Stearate, PEG-100 Stearate (high/low-HLB pairing) |
| Rheology / stabiliser | Viscosity, suspension, anti-separation | Xanthan Gum |
| Sensate (line-dependent) | Cooling / warming | Menthol, Camphor |
| Skin conditioning | Antioxidant, soothing feel | Tocopheryl Acetate, Panthenol |
| Preservation | Microbiological safety | Phenoxyethanol, Ethylhexylglycerin, Disodium EDTA |
| Sensory | Fragrance | Parfum (or none) |

2. Restricted-ingredient confirmation

| Ingredient (class) | Permitted basis | This product |
|---------------------------------|---|--|
| Phenoxyethanol (preservative) | EU Annex V / target-market list — ≤ 1.0% | Used at ≤ 1.0% |
| Ethylhexylglycerin (booster) | Standard cosmetic use level | Within standard use level |
| Menthol (sensate, cooling line) | Cosmetic use level; cosmetic sensation claim only | Within standard use level (cooling line) |
| Camphor (sensate, warming line) | Cosmetic use level; no OTC drug claim | Within standard use level (warming line) |
| Colourant (if any) | EU Annex IV / US permitted colour additive | None unless tinted to brief |
| Fragrance & allergens | IFRA-compliant; allergens declared at threshold | See Sections 5 & 6 |
| Disodium EDTA (chelant) | Standard cosmetic use | ≤ 0.2% |

3. What is and is not disclosed

- **Disclosed openly:** the functional framework, restricted-ingredient identities, and confirmation each is within its permitted limit.
- **Disclosed under NDA to the safety assessor only:** exact weight percentages of the locked formula, emulsifier identities and HLB ratios, supplier identities, and process / homogenizing parameters.
- **Not disclosed:** proprietary process know-how unrelated to safety assessment.

4. Manufacturer statement

For the locked formula 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, microbiological, stability) is provided in this dossier.

Issued by: **NailLegend – Quality Assurance** · naillegend.com · 2026-06-22

NailLegend · naillegend.com — Functional disclosure for safety-assessment support; exact percentages under NDA. Confidential — for the intended recipient only.

5. Fragrance Allergen Declaration

Issued by: NailLegend · naillegend.com | **Contact:** Lareina | **Product:** Massage Lotion **Document:** EU Fragrance Allergen Declaration | **Issue date:** 2026-06-22 | **Version:** 1.0

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 below shows a representative lavender-type aromatherapy fragrance dosed at 0.5%. Content is reconfirmed by the fragrance supplier for the specific fragrance of each order; 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 content (representative — lavender-type aromatherapy fragrance @ 0.5%)

| # | Allergen (INCI) | CAS | Present | % in product | On-pack declaration |
|---|---|-----------|------------|--------------|--------------------------------|
| 1 | Linalool | 78-70-6 | Yes | 0.0225 | Required |
| 2 | Limonene | 5989-27-5 | Yes | 0.0110 | Required |
| 3 | Geraniol | 106-24-1 | Yes | 0.0052 | Required |
| 4 | Citronellol | 106-22-9 | Yes | 0.0038 | Required |
| 5 | Coumarin | 91-64-5 | Yes | 0.0025 | Required |
| 6 | Citral | 5392-40-5 | Yes | 0.0013 | Required |
| 7 | Eugenol | 97-53-0 | Trace | < 0.0010 | Not required (below threshold) |
| — | Isoeugenol, Cinnamal, Benzyl Benzoate, Benzyl Salicylate, Hexyl Cinnamal, Amyl Cinnamal, Farnesol, Benzyl Alcohol, others | various | No / trace | < 0.0010 | Not required |

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

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. Values are reconfirmed by the fragrance supplier for the specific fragrance and dosage of each order.

Issued by: **NailLegend — Quality Assurance** · naillegend.com · 2026-06-22

NailLegend · naillegend.com — Representative allergen content; reconfirmed per fragrance dosage. Confidential — for the intended recipient only.

6. IFRA Conformity Statement

Issued by: NailLegend · naillegend.com | **Contact:** Lareina | **Product:** Massage Lotion **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 | Massage Lotion (leave-on / wipe-off, applied to body) |
| IFRA product category | Category 5A (body lotion / leave-on body care) |
| 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 Massage Lotion 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.

Issued by: **NailLegend — Quality Assurance** · naillegend.com · 2026-06-22

NailLegend · naillegend.com — Supported by the fragrance supplier's IFRA Certificate of Conformity. Confidential — for the intended recipient only.

7. Preservative Efficacy (Challenge) Test

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

Method: **ISO 11930** (Cosmetics — Evaluation of antimicrobial protection). As a water-containing O/W emulsion, this product **must be preserved**; the preservative system is a **Phenoxyethanol / Ethylhexylglycerin** combination with Phenoxyethanol kept $\leq 1.0\%$ within the permitted limit. The results below are **typical of NailLegend standard production**, 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 | $\sim 1 \times 10^6$ cfu/g |
| <i>Staphylococcus aureus</i> | ATCC 6538 | $\sim 1 \times 10^6$ cfu/g |
| <i>Escherichia coli</i> | ATCC 8739 | $\sim 1 \times 10^6$ cfu/g |
| <i>Candida albicans</i> | ATCC 10231 | $\sim 1 \times 10^5$ cfu/g |
| <i>Aspergillus brasiliensis</i> | ATCC 16404 | $\sim 1 \times 10^5$ cfu/g |

Incubation: 22.5 ± 2.5 °C. Reference product: representative production formula (Phenoxyethanol $\leq 1.0\%$ / Ethylhexylglycerin system; Disodium EDTA chelant).

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

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

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

3. Evaluation & conclusion

- Criterion met: **Criterion A** (ISO 11930).
- Overall result: **PASS**.
- Preservative compliance: Phenoxyethanol dosed $\leq 1.0\%$ (within EU Annex V / target-market limit); the system provides adequate antimicrobial protection over the intended product life under the conditions tested.

- Conclusion: performance is reconfirmed per production batch.

Issued by: **NailLegend – Quality Control (in-house)** · naillegend.com · 2026-06-22

NailLegend · naillegend.com — Representative in-house result; batch-specific certificate issued on request. Confidential — for the intended recipient only.

8. Microbiological Test Report

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

Finished-product microbiological data for this water-containing O/W emulsion. 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): **ML-2406-01**

Results (typical)

| 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 |

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

Issued by: **NailLegend — Quality Control (in-house)** · naillegend.com · 2026-06-22

NailLegend · naillegend.com — Representative in-house result; batch certificate accompanies shipment. Confidential — for the intended recipient only.

9. Stability Test Report

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

Physical, chemical and packaging-compatibility stability supporting shelf life / PAO, tested in market packaging (pump bottle / tube / salon jug). For an O/W emulsion the critical risks are **phase separation / oiling-off, water syneresis, and freeze-thaw break-up**, so the programme includes a cold and freeze-thaw cycle. Results are **typical of NailLegend standard production**, issued by NailLegend in-house QC. Batch-specific stability is monitored under the ongoing programme.

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

1. Study design

| Condition | Temperature | Pull points |
|--------------------|--------------------------|--|
| Real-time | 25 ± 2 °C / 60% RH | 0, 3, 6, 12, 24 months |
| Accelerated | 40 ± 2 °C / 75% RH | 0, 1, 2, 3 months |
| Cold / freeze-thaw | 4 °C; -10 ↔ 40 °C cycles | per protocol (emulsion break-up check) |

Packaging tested: HDPE pump bottle / PP jug / laminate tube.

2. Parameters & results (typical)

| Parameter | Acceptance | T0 | Accel. 3 mo | Real-time 12 mo | Pass/Fail |
|--|--------------------------------|-------------|-----------------------|-----------------------|-----------|
| Appearance (no separation / oiling-off) | Conforms | Conforms | Conforms | Conforms | Pass |
| Emulsion homogeneity (no syneresis) | No water/oil ring | Pass | Pass | Pass | Pass |
| Colour | Within range | Pass | No significant change | No significant change | Pass |
| Odour | No rancidity / fragrance drift | Pass | Pass | Pass | Pass |
| pH | Target ± 0.5 | 5.6 | 5.5 | 5.4 | Pass |
| Viscosity | Spec $\pm 15\%$ | 9,000 mPa·s | within | within | Pass |
| Centrifuge (3,000 rpm, 30 min) | No separation | Pass | Pass | Pass | Pass |
| Freeze-thaw (3 cycles) | No irreversible break | Pass | — | — | Pass |
| Packaging compatibility (no leak / deform) | No leak | Pass | Pass | Pass | Pass |
| Microbial (end of study) | Section 8 limits | Pass | — | Pass | Pass |

3. Conclusion

Based on accelerated and real-time data, the assigned shelf life is **24 months** unopened (PAO 12M after opening). The emulsion withstands centrifuge and freeze–thaw stress without irreversible separation. Real-time study to 24 months is ongoing and confirms stability to date. Overall result: **PASS (real-time ongoing)**.

Issued by: **NailLegend – Quality Control (in-house)** · naillegend.com · 2026-06-22

NailLegend · naillegend.com — Representative in-house result; ongoing real-time programme. Confidential — for the intended recipient only.