

## Technical Data Sheet

Epidermal Growth Factor (EGF) | 0.016% sh-Oligopeptide-1 in Ammonium Sulfate Suspension

Product Code FL-EGF1-AMS-0016PCT-TDS

### Current published version — subject to change.

This document is the current web-published revision. Specifications, classifications, and recommendations may be revised without notice as additional batch and analytical data become available. **For any shipment, the authoritative document is the revision packaged with your batch — refer to that version for the values that apply to the lot you receive.**

## Product Overview

|                           |                                                                                                                                          |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name              | Epidermal Growth Factor (EGF)   0.016% sh-Oligopeptide-1 in Ammonium Sulfate Suspension                                                  |
| Product Code / SKU        | FL-EGF1-AMS-0016PCT-TDS                                                                                                                  |
| Document Revision         | 0.1                                                                                                                                      |
| Effective Date            | May 20, 2026                                                                                                                             |
| Manufacturer              | Formulate Labs, Inc.<br>1645 Headland Dr.<br>Fenton, MO 63026                                                                            |
| Quality Contact           | quality@formulate.co<br><i>Lot issues, complaints, contamination concerns, out-of-spec materials, COA discrepancies.</i>                 |
| Regulatory Contact        | regulatory@formulate.co<br><i>INCI, allergens, IFRA, Prop 65, vegan/natural claims, compliance documents, formulation-use questions.</i> |
| Adverse Effects Reporting | safety@formulatelabs.ai                                                                                                                  |
| Emergency Phone Number    | 888-999-2260                                                                                                                             |

This material is bioengineered sh-Oligopeptide-1 at 0.016% in a fixed 35% ammonium sulfate / water salting-out suspension designed to preserve protein integrity during cold storage. It ships refrigerated and is intended for cosmetic formulators building premium renewal, barrier, or recovery-positioned leave-on serums and treatments.

## Recommended Cosmetic INCI Declaration

### sh-Oligopeptide-1

INCI ordering follows descending weight per FDA / EU cosmetic labeling convention; ingredients below 1% may appear in any order in the final label per local regulations. The process-integrated preservation system is disclosed in the SDS for industrial safety and formulation review. Finished-product manufacturers and brand owners remain responsible for final ingredient labeling determinations in each sale jurisdiction.

## Composition / Information on Ingredients

| Ingredient / Chemical Name | CAS #      | Function                                                    | % by Weight |
|----------------------------|------------|-------------------------------------------------------------|-------------|
| Ammonium Sulfate           | 7783-20-2  | Salting-out stabilizer / protein precipitation carrier      | 35.000%     |
| sh-Oligopeptide-1          | 62253-63-8 | Active recombinant protein / peptide; cosmetic raw material | 0.016%      |
| Purified Water             | 7732-18-5  | Solvent (balance)                                           | 64.984%     |

## Preservation System

| System                                   | Level | Notes                                                                            |
|------------------------------------------|-------|----------------------------------------------------------------------------------|
| None (cold-chain salting-out suspension) | N/A   | Refrigerate at 2-8 °C. Brand must validate preservation in the finished product. |

*Unpreserved salting-out suspension. No cosmetic preservative is added; stability relies on cold storage and the ammonium sulfate matrix. Finished formulations must include an appropriate preservation system.*

## Key Technical Attributes

|                                   |                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Format</b>                     | Aqueous cosmetic raw material                                                                                                                                                                                                                                                                                                                                              |
| <b>Appearance</b>                 | Opaque to translucent suspension; salting-out ammonium sulfate may settle on standing. Resuspend gently before sampling.                                                                                                                                                                                                                                                   |
| <b>Odor</b>                       | Odorless to faint characteristic; no added fragrance                                                                                                                                                                                                                                                                                                                       |
| <b>Preservation</b>               | Unpreserved salting-out suspension. No cosmetic preservative is added; stability relies on cold storage and the ammonium sulfate matrix. Finished formulations must include an appropriate preservation system.                                                                                                                                                            |
| <b>Target pH</b>                  | 5.5-7.0 at 25 °C (anticipated)                                                                                                                                                                                                                                                                                                                                             |
| <b>Solubility / Compatibility</b> | Water-miscible / water-compatible                                                                                                                                                                                                                                                                                                                                          |
| <b>Recommended Use Level</b>      | Dilute the 1X (0.016%) suspension into the finished formula per TDS Use levels are guidance only; finished-formula safety, preservation efficacy, and stability remain the responsibility of the brand.                                                                                                                                                                    |
| <b>Processing</b>                 | Thaw or equilibrate to 2-8 °C before opening. Resuspend gently; avoid high shear and sustained heat. Dialyze or dilute to remove ammonium sulfate before incorporating into finished cosmetic phases when required by your SOP. Add during cool-down at ≤ 40 °C. Maintain finished-formula pH in a skin-compatible window (approximately 4.5-7.0) per your stability data. |
| <b>Storage</b>                    | Store tightly closed at 2-8 °C (refrigerated). Protect from light. Ship cold. Minimize freeze-thaw cycles. Resuspend gently before sampling. Use within opened-container guidance on the lot COA once production batches run.                                                                                                                                              |
| <b>Shelf Life</b>                 | Anticipated unopened, refrigerated: 12-24 months. Anticipated unopened, controlled room temperature: 6-12 months. Open or in-use containers require site-specific microbial controls. Ranges represent the current published target and may be refined by future stability data.                                                                                           |

## Formulation Guidance

- Best suited to premium leave-on serums, eye treatments, and recovery-positioned skincare where a cold-chain protein active is desired.
- Dialyze or buffer-exchange to remove ammonium sulfate before adding to finished cosmetic phases if your SOP requires a salt-free active.
- Finished formulas must be independently preserved, stability tested, and micro challenge tested.
- Avoid strong oxidizers, chelators at high levels, and prolonged exposure above 40 °C after the active is incorporated.

## Marketing / Claims Guidance

Appropriate cosmetic language may include supports a renewed-looking finish, supports skin recovery appearance, and premium renewal positioning. **Avoid wound-healing drug language** ('heals wounds', 'treats burns', 'regrows skin'). Structure/function statements must not imply medical benefit.

## Regulatory Notes

- **Current published version — subject to change.** This document represents the current web revision. Specifications may be revised as additional batch and analytical data become available; the document packaged with each shipment is the authoritative version for the specific lot received.
- Recommended cosmetic INCI declaration is the descending-weight string listed above.
- SDS composition disclosure is provided for industrial safety, formulation review, and regional compliance assessment.
- No fragrance is intentionally added.
- **Not certified organic, kosher, halal, COSMOS, vegan, or non-GMO unless separately accompanied by a third-party certificate.** Suitability assessments based on the ingredient deck and supplier information are not equivalent to certifications.
- Component supplier data has been used in good faith; supplier-issued documents take precedence over individual statements above where a discrepancy exists.

- Finished-product manufacturers remain responsible for final product safety, claims, label compliance, regional restrictions, and preservative efficacy.