

Technical Data Sheet

Sea Kelp Bioferment Gel | Product Code FL-SKB-LN-FERM-02

Product Overview

Product Name	Sea Kelp Bioferment Gel
Product Code / SKU	FL-SKB-LN-FERM-02
Document Revision	1.0
Effective Date	May 20, 2026
Manufacturer	Formulate Labs, Inc. 1645 Headland Dr. Fenton, MO 63026
Quality Contact	quality@formulate.co Lot issues, complaints, contamination concerns, out-of-spec materials, COA discrepancies.
Regulatory Contact	regulatory@formulate.co INCI, allergens, IFRA, Prop 65, vegan/natural claims, compliance documents, formulation-use questions.
Adverse Effects Reporting	safety@formulatelabs.ai
Emergency Phone Number	888-999-2260

Sea Kelp Bioferment Gel is a translucent, water-based cosmetic raw material made from Lactobacillus/Kelp Ferment Filtrate. The Linatural MBS-4 preservation system is integrated into the fermentation / raw material process and is disclosed in the SDS composition section for safety communication. It is designed for formulators seeking an oil-free marine bioferment gel for hydrating, calming, sensorially elegant skin, scalp, and hair care formulations.

Recommended Cosmetic INCI Declaration

INCI Name	CAS #	Recommended Declaration
Lactobacillus/Kelp Ferment Filtrate (Seakelp Bioferment)	92128-82-0	Singular INCI record for the supplied raw material

Note: The process-integrated Linatural MBS-4 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.

Key Technical Attributes

Attribute	Specification / Guidance
Format	Aqueous viscous gel
Appearance	Clear to translucent; colorless to pale amber
Odor	Mild characteristic marine/ferment; no added fragrance
Preservation System	Linatural MBS-4 at 2.00% total, incorporated as a process-integrated preservation system. SDS composition disclosure: Propanediol 1.700%, Ethylhexylglycerin 0.200%, Benzoic Acid 0.100%.
Target pH	4.5-5.1
Solubility / Compatibility	Water-compatible and suitable for aqueous gels, serums, masks, toners, leave-on treatments, rinse-off systems, and scalp products.
Recommended Use Level	Typical: 1-10%. Elevated use: 10-30%. May be used at higher levels or as a base where the finished product is properly preserved, safety reviewed, and stability tested.
Processing	Add during cool-down at ≤ 45 °C. Avoid high shear, prolonged heat, and pH extremes.
Storage	Store tightly closed in opaque containers protected from light. Refrigerate for maximum preservation.
Shelf Life	Unopened, refrigerated: 24 months. Unopened, controlled room temperature: 12-18 months. Open or in-use containers require site-specific microbial controls.

Formulation Guidance

- Best suited to water-based cosmetic systems and emulsion water phases where a marine bioferment story and hydrated sensorial are desired.

- Maintain final product pH in an acidic to mildly acidic range when relying on benzoic-acid-based preservation synergy.
- Avoid prolonged exposure above 45 °C after addition; heat can alter color, viscosity, and natural material character.
- Avoid high shear once gel texture is developed unless process validation shows acceptable viscosity retention.
- Final formulations must be independently stability tested, micro tested, and challenge tested where preservation risk exists.

Marketing / Claims Guidance

Appropriate cosmetic-positioning language may include oil-free hydration, soothing sensorial, marine bioferment, sea kelp-derived polysaccharides, and skin/scalp conditioning support. Avoid disease, eczema treatment, wound-healing, or therapeutic claims unless the final product is regulated and substantiated for such use.

Regulatory Notes

- Recommended cosmetic INCI declaration is the singular INCI record 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, or non-GMO unless separately accompanied by a third-party certificate.
- Natural marine materials can vary in color, odor, and viscosity from lot to lot.
- Finished product manufacturers remain responsible for final product safety, claims, label compliance, regional restrictions, and preservative efficacy.