

Technical Data Sheet

Avena Sativa Kernel Extract | 5.000% Nelumbo Nucifera Flower Extract in Hydroglycerin Extract with Lotus Flower Extract

Product Code FL-NFE-W2-MBS4-5PCT-001-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	Avena Sativa Kernel Extract 5.000% Nelumbo Nucifera Flower Extract in Hydroglycerin Extract with Lotus Flower Extract
Product Code / SKU	FL-NFE-W2-MBS4-5PCT-001-TDS
Document Revision	0.1
Effective Date	May 20, 2026
Manufacturer	Formulate Labs, Inc. 1645 Headland Dr. Fenton, MO 63026
Quality Contact	quality@formulate.co <i>Lot issues, complaints, contamination concerns, out-of-spec materials, COA discrepancies.</i>
Regulatory Contact	regulatory@formulate.co <i>INCI, allergens, IFRA, Prop 65, vegan/natural claims, compliance documents, formulation-use questions.</i>
Adverse Effects Reporting	safety@formulatelabs.ai
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A 5.000% Nelumbo Nucifera Flower Extract hydroglycerin stock prepared in hydroglycerin extract and preserved with Lotus Flower Extract at 2.000%. Ready-to-dilute aqueous botanical concentrate for cosmetic serums, toners, and emulsions.

Recommended Cosmetic INCI Declaration

Glycerin, Water, Nelumbo Nucifera Flower Extract, Propanediol, Ethylhexylglycerin, Benzoic Acid

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
Water	7732-18-5	Hydroglycerin carrier / solvent	44.053%
Glycerin	56-81-5	Hydroglycerin carrier / solvent	48.947%
Nelumbo Nucifera Flower Extract	—	Botanical extract; bioactives include flavonoids, nuciferine, polyphenols	5.000%
Propanediol	504-63-2	Preservative / antimicrobial component	1.700%
Ethylhexylglycerin	70445-33-9	Preservative / antimicrobial component	0.200%
Benzoic Acid	65-85-0	Preservative / antimicrobial component	0.100%

Preservation System

System	Level	Notes
Lotus Flower Extract	2.000%	Multifunctional aqueous preservation per supplier guidance.

Preserved with Lotus Flower Extract at 2.000% in the aqueous stock.

Key Technical Attributes

Format	Aqueous hydroglycerin cosmetic raw material
Appearance	Translucent to light amber liquid; may show slight botanical particulate haze
Odor	Characteristic mild herbal; no added fragrance
Preservation	Preserved with Lotus Flower Extract at 2.000% in the aqueous stock.
Target pH	4.5–5.1 (target for preserved stock as shipped)
Solubility / Compatibility	Water-miscible hydroglycerin stock; dilutes into aqueous phases
Recommended Use Level	Typical finished-formula use: 0.5%–5.0% of this stock on an as-is basis in aqueous serums, toners, masks, and emulsions. Use levels are guidance only.
Processing	Add to aqueous or cool-down phases below 40 °C. Maintain finished-product pH within the preservative-valid range (4.5–5.1 typical for this stock). Validate compatibility with cationic polymers and high-surfactant systems independently.
Storage	Store tightly closed at room temperature, protected from direct sunlight and excessive heat. Refrigeration (2–8 °C) optional for extended color stability. Use within preservative-validated shelf life after opening.
Shelf Life	Anticipated unopened, refrigerated: 18-24 months. Anticipated unopened, controlled room temperature: 12-18 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

- Hydroglycerin stock ships at 5% botanical extract loading — dilute into finished formulas as needed.
- Compatible with K-beauty cica / barrier-support positioning at typical use rates.
- Finished formulas must be independently preservative-validated if further diluted.
- Structure/function cosmetic claims only — avoid therapeutic or drug-like language.

Marketing / Claims Guidance

Appropriate cosmetic language may include soothing appearance, sensitive-skin tolerance, barrier-comfort positioning, and colloidal-oat heritage stories. **Avoid therapeutic claims** (treats eczema, cures dermatitis, heals wounds). Colloidal oat is a common trade/context name — Formulate Labs sells the INCI extract in our hydroglycerin stock, not supplier-branded colloidal-oat SKUs.

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.