

## Technical Data Sheet

Avena Sativa Kernel Extract | 5.000% Porphyridium Cruentum Extract in Water + Propanediol + Glycerin Extract with Porphyridium red microalgae Extract

Product Code FL-POC-W1-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

<b>Product Name</b>	Avena Sativa Kernel Extract   5.000% Porphyridium Cruentum Extract in Water + Propanediol + Glycerin Extract with Porphyridium red microalgae Extract
<b>Product Code / SKU</b>	FL-POC-W1-MBS4-5PCT-001-TDS
<b>Document Revision</b>	0.1
<b>Effective Date</b>	May 20, 2026
<b>Manufacturer</b>	Formulate Labs, Inc. 1645 Headland Dr. Fenton, MO 63026
<b>Quality Contact</b>	quality@formulate.co <i>Lot issues, complaints, contamination concerns, out-of-spec materials, COA discrepancies.</i>
<b>Regulatory Contact</b>	regulatory@formulate.co <i>INCI, allergens, IFRA, Prop 65, vegan/natural claims, compliance documents, formulation-use questions.</i>
<b>Adverse Effects Reporting</b>	safety@formulatelabs.ai
<b>Emergency Phone Number</b>	888-999-2260

A 5.000% Porphyridium Cruentum Extract hydroglycerin stock prepared in water + propanediol + glycerin extract and preserved with Porphyridium red microalgae Extract at 2.000%. Ready-to-dilute aqueous botanical concentrate for cosmetic serums, toners, and emulsions.

## Recommended Cosmetic INCI Declaration

### Water, Propanediol, Glycerin, Porphyridium Cruentum 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	58.737%
Propanediol	504-63-2	Hydroglycerin carrier / solvent	24.474%
Glycerin	56-81-5	Hydroglycerin carrier / solvent	9.789%
Porphyridium Cruentum Extract	—	Botanical extract; bioactives include polyphenols, flavonoids, botanical actives	5.000%
Propanediol	504-63-2	Preservative / antimicrobial component	1.700%

Ingredient / Chemical Name	CAS #	Function	% by Weight
Ethylhexylglycerin	70445-33-9	Preservative / antimicrobial component	0.200%
Benzoic Acid	65-85-0	Preservative / antimicrobial component	0.100%

## Preservation System

System	Level	Notes
Porphyridium red microalgae Extract	2.000%	Multifunctional aqueous preservation per supplier guidance.

Preserved with Porphyridium red microalgae Extract at 2.000% in the aqueous stock.

## Key Technical Attributes

<b>Format</b>	Aqueous hydroglycerin cosmetic raw material
<b>Appearance</b>	Translucent to light amber liquid; may show slight botanical particulate haze
<b>Odor</b>	Characteristic mild herbal; no added fragrance
<b>Preservation</b>	Preserved with Porphyridium red microalgae Extract at 2.000% in the aqueous stock.
<b>Target pH</b>	4.5–5.1 (target for preserved stock as shipped)
<b>Solubility / Compatibility</b>	Water-miscible hydroglycerin stock; dilutes into aqueous phases
<b>Recommended Use Level</b>	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.
<b>Processing</b>	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.
<b>Storage</b>	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.
<b>Shelf Life</b>	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.