

## FSS Vegan Retinol Liposome PF- White Sheet

**Code:** FSS60238

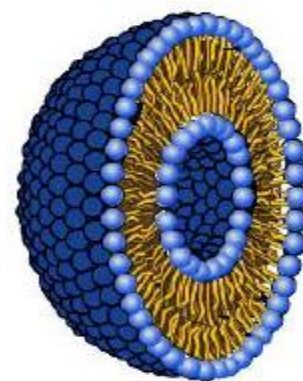
**INCI Name:** Water & Glycerin & Phospholipids & Retinol

**INCI Status:** Conforms

**Suggested Use Levels:** 1.0 – 10.0%

**Suggested Applications:** Conditioning, Nourishing

Retinol, referred to as a miracle ingredient, is praised for reducing fine lines, wrinkles, and increasing collagen production. As a derivative of Vitamin A, retinol works to reduce hyperpigmentation while evening skin tone and texture. By increasing cellular turnover, retinol encourages cells to renew regularly resulting in fewer breakouts, smoother skin, and a youthful complexion. Various hair care products use retinol to regulate hair follicle growth, resulting in reduced hair loss and reduced inflammation. Retinol offers a luminescent complexion from healthy hair to rejuvenated skin.



**FSS Vegan Retinol Liposome PF** is a preservative free ingredient that utilizes encapsulation technology to offer a unique, brand-differentiating product. Liposomes can be used in the delivery of various cosmetic materials, vitamins, and minerals throughout the body, typically to the skin, for an array of advantages. The liposomes may attach and fuse to the cellular membranes, releasing their contents into the target cells. Liposomes are microscopic vesicles that consist of an aqueous center with a phospholipid membrane. When non-encapsulated materials are placed on the skin, a range of factors determines the fate of the material. Stability, solubility, lipophilicity, and size are all obstacles the active must overcome to penetrate the epidermal barrier. Liposomes, which resemble the basic structures of cellular membranes, create a more beneficial interaction with skin cells. The structure and amphiphilic nature allows the liposomes to penetrate the epidermal barrier and travel deeper than free materials to deliver the anticipated results.

Retinol can be an unstable molecule, prone to quick degeneration when exposed to oxygen and light. Liposomal encapsulation helps to protect retinol and allows for the incorporation of a stabilized form for cosmetic formulation. Liposome encapsulated retinol is also commonly used for enhanced activity. **FSS Vegan Retinol Liposome PF** may be used in a variety of skin and hair care products to capitalize on the benefits associated with retinol and encapsulation technology.

#### References:

1. Lee SC, et al. "Stabilization of Retinol Through Incorporation Into Liposomes." . Ncbi.Nlm.Nih.Gov, 2002, <https://www.ncbi.nlm.nih.gov/pubmed/12296993>.