



AC Retinol Liposome OS White Sheet

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Code: 60184

INCI Name: Caprylic/Capric Triglyceride & Phospholipids & Retinol

INCI Status: Conforms

Suggested Use Levels: 1.00 – 10.00%

Suggested Applications: Nourishing, Rejuvenating

Liposomes are microscopic vesicles that consist of an aqueous center with a phospholipid membrane. These phospholipid walls are identical to those that comprise other human cell membranes. Utilizing the liposome as a vehicle we can release its encapsulated content of active molecules through several layers of the epidermis, but without diffusing too deeply. This delivery system helps to manage the texture and efficacy of the topical application of retinol, the most favored anti-aging active of dermatologists around the globe.



Retinol, otherwise known as Vitamin A, is an established anti-aging active supported by over 40 years' worth of research. It can help to reduce the effects of photo-aging and extrinsic stress on the skin. Retinol works by increasing cellular turnover, inducing epidermal thickening by stimulating keratinocytes proliferation, and enhancing the expression of CRABP II, CRBP, mRNAs and structural proteins. These actions result in a minimized appearance of wrinkles, a bolstered skin thickness, and the slowing of collagen degradation giving firmer more elastic skin. In addition, retinol can help to lighten hyperpigmentation, or brown spots caused by sun exposure, to even the complexion and improve translucency. In personal care, retinol is often chosen over other retinoid forms, as it exhibits only minimal signs of erythema, proving to be an optimal choice when comparing efficacy vs skin irritation.

It is well known that retinol in all forms readily deteriorates when exposed to light and air, therefore, this encapsulation helps to improve not only delivery of the retinol, but its stability as well. **AC Retinol Liposome OS** is an oil soluble liposome that allows for easy incorporation of retinol into anhydrous or emulsion systems to help decrease the extrinsic signs of aging.

References:

1. Shao, Y., He, T., Fisher, G. J., Voorhees, J.J & Quan, T. (2016). Molecular basis of retinol anti-ageing properties in naturally aged human skin in vivo. *International Journal of Cosmetic Science*. Volume 39, Issue 1, Pages 56–65
2. Mukherjee, S., Date, A., Patravale, V., Korting, H. C., Roeder, A., & Weindl, G. (2006). Retinoids in the treatment of skin aging: an overview of clinical efficacy and safety. *Clinical Interventions in Aging*, 1(4), 327–348.

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