

Updated: 26-Jul-2021

Vitamin A Liposomes (Retinol)

Specification Sheet

Description: High-dose, encapsulated vitamin A (retinol) formulated to improve skin penetration. Stability is 30-55% better than pure non-encapsulated retinol if stored as raw solution as well as in a cream at 20°C and 45°C. Activity: 1g contains about >3'000'000 IU pure retinol. Does not contain any preservatives. Clear, yellow fluid. Fresh aromatic odor. pH value: 6.5-7.5. Particle size of liposomes is 300-500nm. Dispersible in water and oil (liposomal dispersion).

CAS: 7732-18-5, 111-29-5, 8002-43-5, 68-26-8, 9005-64-5, 64-17-5, 7778-77-0

INCI Name: Water, pentylene glycol, lecithin, retinol, polysorbate 20, alcohol, potassium phosphate

Benefits:

- Anti-wrinkle and anti-aging properties
- Protects vitamin A (retinol) in creams from undesirable degradation and loss of function
- Liposomes enable delivery of a high concentration of pure retinol (> 3,000,000 IU/g) to the deeper skin layers due to easy skin penetration

Use: Incorporate into emulsion products at room temperature or below 30°C/86°F typically added at the end of the emulsion process. 1g contains about 3 Mio IU. Typical use level is 0.1 to up to 3%. When adding 1% to 100g of cream, the final retinol concentration will be 30,000 IU per 1g of cream which is a high concentration of retinol ideal for the aging skin. For external use only. Store refrigerated.

Applications: Anti-aging creams, lotions, & gels. Protective creams, sun care & after sun products.

Country of Origin: Germany

Raw material source: Acetylene and acetone

Manufacture: Retinol is synthetically produced in a sophisticated multi-step process from C15-vinyl-beta-ional and C5-aldehyde and beta-formylcrotyl acetate.

Animal Testing: Not animal tested

GMO: GMO-free, but not certified

Vegan: Yes

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