

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. Particle size of liposomes is 300-500nm

CAS: 7732-18-5, 5343-92-0, 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

Composition: Water, pentylene glycol, lecithin, retinol, polysorbate 20, alcohol, potassium phosphate, Tocopherol, Ascorbyl Palmitate, BHT, BHA

Appearance: Clear yellowish liquid

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.

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

Solubility: Dispersible in water and oil (liposomal dispersion)

Preservation: Preservative-free

Storage: Store refrigerated (<4°C /39°F).

Country of Origin: Germany

Raw material source: Acetylene and acetone



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

Animal Testing: Not animal tested

GMO: GMO-free

Vegan: Does not contain animal-derived components

HS Code: 2936210000

Proposition 65: WARNING: This product can expose you to chemicals including, Phenol, (1,1-dimethylethyl)-4-methoxy-, which is known to the State of California to cause cancer. This product can expose you to chemicals including, Retinol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.