

Vitamin A Microcaps (Retinol)

Specification Sheet

Description: Pure vitamin A (retinol) based on a nano-delivery system. The vitamin A is incorporated in a non-visible microcapsules made of a shell of a natural sugar complex (carboxymethyl cellulose-chitosan). This capsule stabilizes retinol to avoid degradation reactions. Activity: 1g contains about 17'000IU pure retinol. Preserved with phenoxyethanol. Light yellow viscous emulsion, neutral odor. Dispersible in water and oil. pH 4.5-6.5.

CAS: 7732-18-5, 8001-22-7, 68-26-8, 9004-32-4, 9012-76-4, 79-14-1, 9005-64-5, 1338-43-8, 128-37-0, 70445-33-9, 102-71-6, 122-99-6

INCI Name: Aqua, glycine soja, retinol, cellulose gum, acrylates/ c10-30 alkyl acrylate crosspolymer, chitosan, glycolic acid, polysorbate 20, sorbitan oleate, BHT, triethanolamine, phenoxyethanol

Benefits:

- Has effective anti-wrinkle and anti-aging properties
- Microcapsules protects vitamin A (retinol) in creams from undesirable degradation and loss of function
- Microcapsules deliver retinol gradually so that a sustained and long-lasting release is achieved
- Maintains original properties of vitamin A
- Widely used for irritated and blemished skin

Use: Incorporate into emulsion products at room temperature or below 40°C/100°F. 100g contains about 1.7mio IU or 1g contains about 17'000IU. Typical use level is 1-5%. When adding 5% of Vitamin A Microcaps to a cream, the final retinol concentration will then be about 85'000 IU per 100g of cream which is more than enough to supply the skin with vitamin A. For external use only.

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

Country of Origin: Switzerland

Raw material source: Beta-carotene

Manufacture: Retinol is produced synthetically by the reduction of a pentadiene derivative to form retinal which is then converted to retinol through acidification and hydrolysis. Retinol is then dissolved in soya and emulsifiers and then "packaged" into cellulose-chitosan microcapsules.

Animal Testing: Not animal tested

GMO: GMO free (but not certified)

Vegan: Does not contain animal-derived components