

## NOVOSOME RETINOL<sup>®</sup>

An advanced delivery solution

- High efficacy and stability
- Time-released delivery system
- Safe and effective absorption of retinol with lower skin irritation
- Avoid color change in the formulation



## NOVOSOME RETINOL<sup>®</sup>

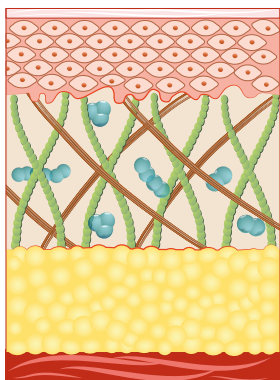
INCI Name: AQUA, PHOSPHOLIPIDS, RETINOL, PHENOXYETHANOL, CHLORPHENESIN

### Introduction:

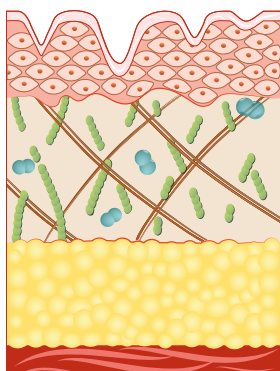
Novosome Retinol is designed to stably deliver retinol into the deep skin layer and also prevent the potential irritation of it. Novosome Retinol reduces the potential for irritation by timed-releasing strategy. Novosome Retinol act as an antioxidant and cell regenerator. By normalizing keratinization, stimulating collagen synthesis and renewing the skin, it offers anti-aging effects.

#### Technical Data Sheet ( TDS )

Appearance	yellow liquid
Odor	characteristic
pH	4.5-6.5
Acid value	Max. 2.0
Density	0.9-1.2



Healthy skin



Aged skin

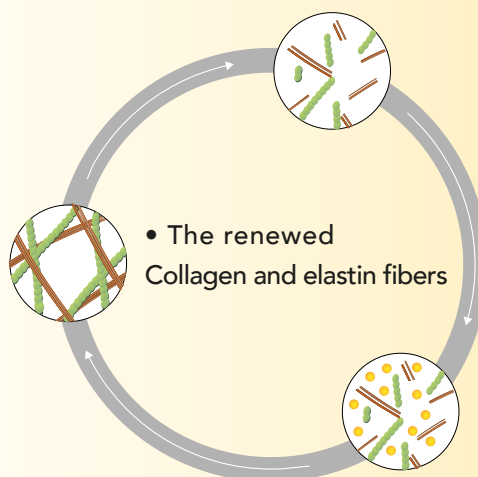
### Novo Retinol

collagen renewal system

Aging is associated with the degradation of the natural form of the skin's extracellular matrix that collagen and elastin are the main players.

Retinol modulates the collagen and elastin synthesis while reducing MMP and collagenase enzymes and preventing and repairing aging signs.

- Collagen and elastin degradation due to:
  - Age
  - Sunlight (UV rays)
  - Environmental and lifestyle factors



- Novo Retinol help regenerating new Collagen and elastin fibers



## Active & Mechanism:

Novosome Retinol is an advanced delivery system that slowly and consistently releases to the deep skin levels protecting retinol from degradation and preventing skin irritation.

Retinol is a usable form of Vitamin A to develop normal skin. Retinol belongs to the family of natural retinoids. It is the precursor for the synthesis of retinoic acid, which is well known to influence a variety of cellular processes such as cell growth and differentiation, cell surface alterations, and immune modulation. Its potential in the treatment of photoaging makes it an interesting ingredient for cosmetics products. Retinol is an effective epidermal thickening and proliferation, with less irritancy compared to retinoic acid.

The clinical studies support the significant efficacy of retinol in fine wrinkle improvement. The subsequent molecular studies show that topical application of retinol on aged skin reduces the skin proteinase enzymes (including collagenase, gelatinase, and matrix metalloproteinase (MMP)) while concomitantly increasing collagen synthesis and fibroblast growth.

One crucial point about retinol is that it is extremely unstable and easily gets biologically inactive on exposure to light and air. As a vehicle to safely deliver retinol to the skin, Novosome Retinol plays a crucial role in eliciting its efficacy.

Typical formulation for Retinol anti-aging serum	
Novosome Retinol	10
Novosome vit c	5
Novo Poly-Tight	4
Novo ben 5	1
Novosorption WS	5
Glycerin	5
Xanthan gum	0.35
Aqua	q.s
Preservative	q.s

## Benefits:

- Enhanced penetration
- Normalizing keratinization
- Anti-aging and protecting effects
- Normalizing cell renewal process
- Unclogging pores
- Neutralizing free radicals

## How to use:

- Cold or hot process

**Dosage:** 2-10%

## Applications:

- Serum
- Cream
- Toner



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