



SCH ShellCare® RP

Actives for the skin



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01

Introduction





01

The shell

The encapsulation system is composed of **polycaprolactone**, a biodegradable polymer biosphere. Advantages include controlled release, enhanced stability, and improved efficacy of the active ingredients.

Main activities

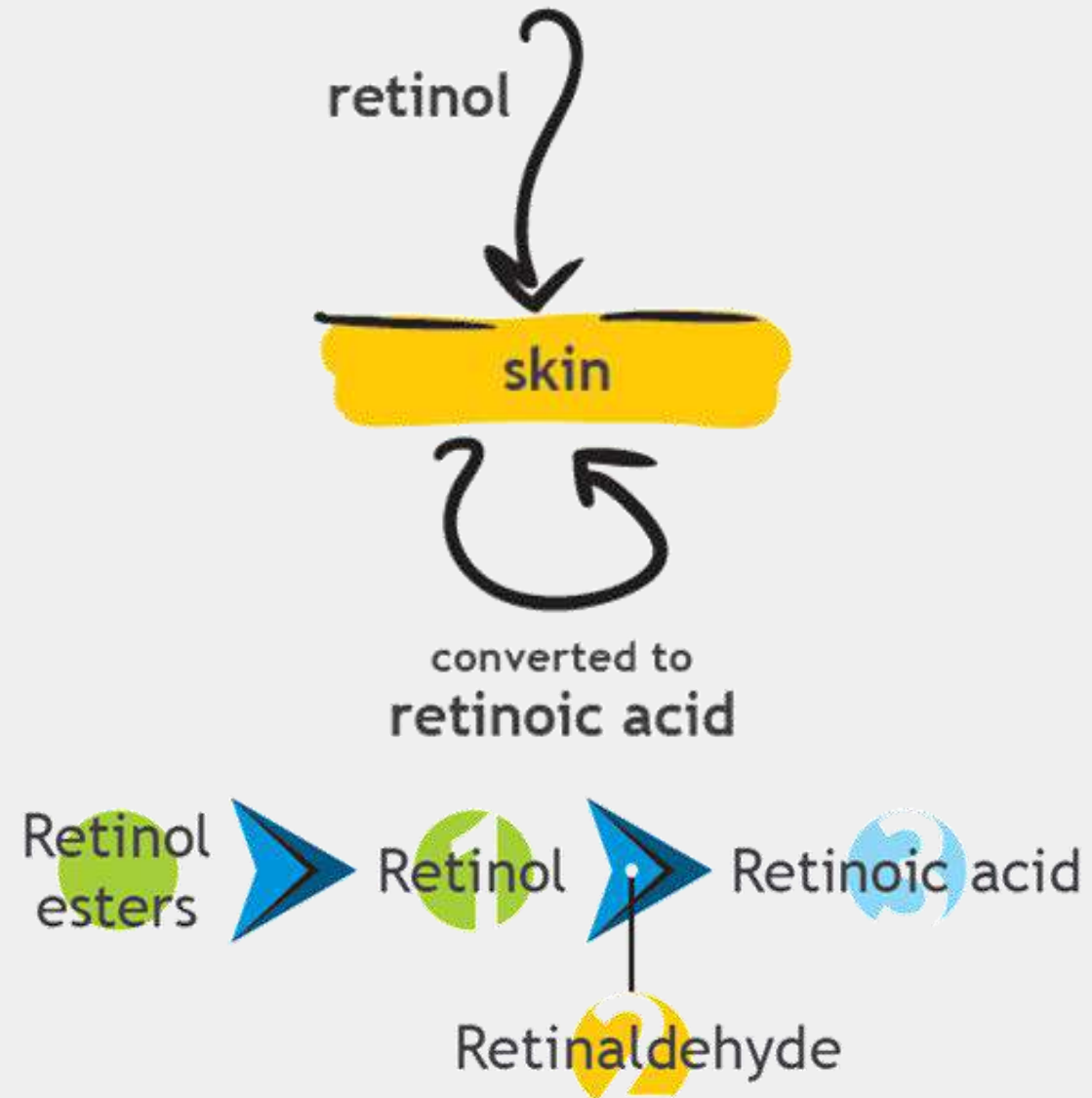
- Retinyl palmitate is a precursor to retinol, converting into active retinoic acid in the skin.
- Prevents wrinkles due to its minimizing effect, as well as smooth out existing fine lines and wrinkles.
- Brightens dull skin by exfoliating at a cellular level, which results in brighter and smoother new skin.
- Regulates oily skin and minimize breakouts.

01

Technical context

No matter which retinoid you choose, your skin can only utilize vitamin A in its active form: **retinoic acid**. Retinoic acid binds to retinoid receptors, regulating cellular renewal and repair processes. This mechanism is responsible for reducing fine lines and dark spots. However, retinoic acid is prescription-only, while retinol and its derivatives are widely used in cosmetics.

Retinyl esters, such as retinyl acetate and retinyl palmitate, are highly stable and commonly used in cosmetics. Before becoming active, they must first convert into retinol, then retinaldehyde, and finally into retinoic acid. This multi-step conversion reduces their potency, leading to weaker anti-wrinkle effects and a smaller increase in epidermal thickness compared to retinol and retinoic acid. However, their stability and gentler action make them **ideal for sensitive skin and long-term use**.





01

Composition

INGREDIENT

%

FUNCTION

Aqua	Up to 100	Solvent
Polycaprolactone	0,055 – 0,065	Capsule
Xanthan gum	0,4 – 0,6	Thickener
Retinyl palmitate	0,4 – 0,6	Active
Polyvinyl alcohol	0,045 – 0,055	Emulsifier
Sorbitan stearate	0,045 – 0,055	Emulsifier
Propanediol	4 – 6	Preservative
1,2-Hexanediol	0,8 – 1,2	Preservative
Caprylyl glycol	0,8 – 1,2	Preservative

Controlled release
thanks to the
polycaprolactone
capsule

It regulates cell
differentiation, promoting
epidermal renewal and a
smoother skin texture



02

Ingredients



02 Ingredients

1. Retinyl palmitate

Pro-Rretinol / Antiaging / Skin renewal

Retinyl palmitate, a **gentler and more stable precursor to retinol**, offers many of the same skin benefits while being better tolerated by sensitive skin. Once absorbed, it gradually converts into retinol, then retinaldehyde, and finally into retinoic acid, delivering long-term anti-aging effects.

It acts as a **cell-communicating ingredient**, promoting healthier, younger-looking skin, while also functioning as an antioxidant that protects against free radical damage, a major contributor to premature aging. By stimulating collagen and elastin production, it **helps improve skin firmness and reduce fine lines**.

Additionally, it supports the production of glycosaminoglycans, essential for maintaining **skin hydration and barrier function**. Its **gentle exfoliating properties** aid in clearing dead skin cells, oil, and debris from pores, ultimately encouraging cell turnover and resulting in smoother, more even-toned skin over time.



03

Specifications





05 Technical specifications

CHARACTERISTIC	SPECIFICATION
Aspect	Liquid
Color	Yellowish
Odor	Characteristic
Dosage (%)	0,3
Solubility	Dispersible in water
Regulatory status	
Europe	OK
China	OK
USA	OK





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