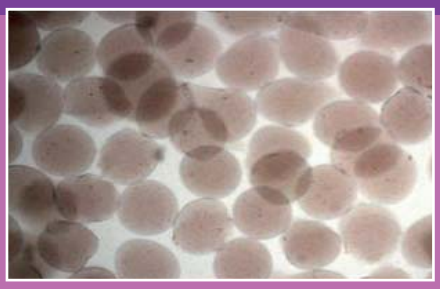
KERATOCLEAN®PB

Gentle Enzymatic Peeling with Mild Microcapsule Scrubbing



No irritations and no side effects for the skin

Definition: Active ingredient based on micro-encapsulated stabilized Keratinase. The Human Keratin high specific protease was obtained through biotechnology by fermentation of *Bacillus licheniformis*.

INCI name: r-Bacillus Licheniformis Keratinase (and) Calcium Alginate.

Preservative-free

GMO-free

Animal testing-free

Appearance: Light brown lyophilized powder.

Active Molecule: Ker A Keratinase.

Properties: KERATOCLEAN®PB selectively eliminates dead skin cells by a gentle enymatic peeling and mechanical exfoliation to smooth the skin surface and promote cell renewal.

Characteristics: KERATOCLEAN®PB is a gentle natural alternative to AHAs, urea and thioglycolates for skin care.

Applications:

Enzymatic peeling and mechanical scrubbing, skin cell renewal, firming, thickening and moisturizing, anti-aging and anti-wrinkle, cosmetic treatment of calluses and corns, Keratosis pilaris, Acne, Hirsutism, ingrown hair removing and hair growth delaying.

Dosage: 0.5%-1.0%

Not to be used on damaged skin

Formulation: KERATOCLEAN®PB can be incorporated in all types of cosmetic formulations where chemical-physical exfoliation and skin cell renewal are desired.

Compatible with sensitive-skin users and long-term treatments.

Handling: Restore the lyophilized microcapsules by addition of a proportional volume of deionized water and let swell for a minimum time period of 5-10 minutes.

After complete hydration, incorporate the product in the final formulation, by dispersing during the cooling stage at a temperature of 40°C or less, under a slight agitation with helix.

Follow stirring gently until obtaining a completely homogeneous mixture.

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Claim Substantiation

In vivo efficacy

SKIN EXFOLIANT and EPIDERMAL CELL RENEWAL EFFECT

Protocol:

A panel of 17 volunteers applied a placebo cream on one elbow, heel and arm and a cream containing 1% of KERATOCLEAN®PB on the other side twice a day for 28 days.

1. COSMETIC TREATMENT OF CALLUSES

KERATOCLEAN® PB at 1%

Results:

KERATOCLEAN®PB shows:

- ✓ a statistically significant decrease in skin toughness in test areas affected by callus and corn hyperkeratosis in the 100% of examined cases.
- ✓ a statistically significant reduction of skin roughness and redness with elimination of spots in test area affected by Keratosis Pilaris in the 100% of considered cases.

2. COSMETIC TREATMENT OF CORNS

KERATOCLEAN® PB at 1%

Toxicological information:

KERATOCLEAN®PB is hypoallergenic and has a very good cutaneous compatibility:

- ✓ Single Patch Test: well tollerated
- ✓ Repeated Patch Test: non irritant and non sensitizing
- ✓ NRR Cytotoxicity: non toxic

3. COSMETIC TREATMENT OF KERATOSIS PILARIS

KERATOCLEAN® PB at 1%

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