

TECHNICAL DATA SHEET

Product name: Bacillus Ferment

INCI name: Bacillus Ferment, Water, Glycerin, Propylene Glycol, 1,2-Hexanediol

CAS: 9014-01-1, 7732-18-5, 56-81-5, 57-55-6, 6920-22-5

Chemical classification: Mixture

Functional category: Exfoliant, antimicrobial agent

Raw material origin: China

Description: Bacillus Ferment is an enzymatic exfoliant used for skin peeling. It represents a mild but highly effective alternative to alpha-hydroxy fruit acids. It exhibits activity within pH 5-8. Light yellow to yellow liquid, soluble in water. Peptide content \geq 1000ppm. Skin action: The mixture contains natural enzymes that eliminate dead skin cells, making the skin surface smooth, younger, and healthier. The peeling process is not mechanical but enzymatic. Enzymatic peeling is based on the chemical breakdown of protein complexes, the so-called "adherens compounds," which hold skin cells together. This mechanism helps accelerate the natural skin peeling process. Enzymatic peeling is excellent for individuals with clogged pores and hyperpigmentation. Bacillus Ferment has excellent broad-spectrum antimicrobial activity. It acts against various pathogenic bacteria and fungi: Staphylococcus aureus, Escherichia coli, Pseudomonas aeruginosa, Candida albicans, Aspergillus niger.

Benefits:

- Enzymatic exfoliant, providing a mild but highly effective alternative to alpha-hydroxy fruit acids.
- Eliminates dead cells, making the skin surface smooth, younger, and healthier.
- Accelerates the natural skin peeling process.
- Unclogs pores and removes hyperpigmentation.
- Possesses excellent broad-spectrum antimicrobial activity.
- Safe and harmless for the skin.

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Usage: Add to the water phase or at the end of cosmetic product formulation, ideally at room temperature (but can also be added to a warm solution up to 60°C). Recommended concentrations are between 0.5% to 1%, maximum 2%. Not recommended for use on damaged skin. For external use only.

Application: Bacillus Ferment is used in the production of anti-aging creams, body gels, and lotions, skin brightening products, cleansers, masks, and non-abrasive exfoliants.

Origin: Bacillus Ferment is obtained through the fermentation of the Gram-positive, catalase-positive bacterium *Bacillus Subtilis*, which produces a protease with keratolytic activity.

Storage: Keep in the refrigerator at a temperature of 4 to 8°C.

Animal testing: The substance has not been tested on animals.

GMO: Not genetically modified.

Vegan: Does not contain components of animal origin.

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