

Ectoin

Specification Sheet

Description: Ectoin is a natural amino acid derivative produced by microorganisms to survive harsh environmental conditions. In skincare it acts as a hydrator and it works by forming a stable, protective hydration shield around skin cells that may help defend against UV radiation, pollution, and dryness.

CAS: 96702-03-3

INCI Name: Ectoin

Composition: Ectoin

Appearance: White or almost white crystal or powder

Benefits:

- Has potential hydrating properties for daily hydration and barrier repair
- Helps with skin dryness
- May soften wrinkles and may delay skin aging
- May help preventing trans-epidermal water loss (TEWL)
- Shields cells from environmental stressors like pollution, UV radiation, and harsh weather
- Pairs well with hydrators such as Hyaluronic Acid

Use: Use 1-7% in skin care formulation, with 1-3% as a typical range. Dissolve in the water phase of the formulation or add at the end of the formulating process, pre-dissolved in low concentration of water. For external use only.

Applications: Skin care products such as daily moisturizers, night creams, gels, eye creams and body lotions.

Solubility: Soluble in water

Preservation: Preservative-free

Storage: Store in a closed container, in a cool, dry, light protected place.

Country of Origin: China

Raw material source: Glucose Fermentation



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Manufacture: Ectoin is produced through controlled biological fermentation of glucose and is then purified through membrane filtration and salt removal, followed by decolorization, concentration, ethanol crystallization, centrifugation, and drying. The Ectoin is then screened before packaging.

Animal Testing: Not animal tested.

GMO: GMO-free

Vegan: Does not contain animal-derived components.

HS Code: 2933599099