

## DESCRIPTION

INCI Name: Ectoin

CAS NO.: 96702-03-3

Natori Ectoin 100 is a cyclic amino acid derivate. As an important substance for extremophiles to survive in extreme environments, Ectoin can promote the association of water molecular clusters and form hydration layer around DNA and proteins, so as to protect macromolecules (proteins, nucleic acids) and cell membranes inside microbes from damage caused by ultraviolet light, high temperature and high salt etc. It has remarkable protective and repairing efficacy, can help resist skin external stimulus, and can be widely used in personal care products such as repairing, anti-pollution, sunscreen, after-sun repair, anti-aging, etc. Recommended Dosage: 0.1 – 2.0%

## TYPICAL PROPERTIES

Items	Specifications
Appearance	White to off white powder
Content, %	≥ 98.0
pH	5.5 – 7.5
Transmittance, %	≥ 98.0
Specific rotation, °	+139 – +145
Loss on drying, %	≤ 1.0
Ignition residue, %	≤ 1.0
Heavy metals, ppm	≤ 10
Pb, ppm	≤ 2.0
Total plate counts, cfu/g	≤ 100
Molds and yeasts, cfu/g	≤ 50
Thermophilic coliform, cfu/g	Absent
Pseudomonas Aeruginosa, cfu/g	Absent
Staphylococcus aureus, cfu/g	Absent

\* The data provided for these properties are typical values, intended only as guides, and should not be construed as sales specifications.

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**STORAGE**

Store in a cool, well-ventilated area and keep in a tightly closed container.

**SHELF LIFE**

24 months

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