

## DESCRIPTION

INCI Name: Trehalose

CAS NO.: 6138-23-4

Natori Trehalose 100 is a non-reducing sugar which widely exists in many edible plants, animals and microorganisms, it is formed by an  $\alpha,\alpha$ -1,1-glucoside bond between two  $\alpha$ -glucose units. The bonding makes trehalose very resistant to acid hydrolysis, and therefore is stable in solution at high temperatures, even under acidic conditions. Trehalose forms a rhomboid crystal as the dehydrate and has 90% of the calorific content of sucrose in that form. Anhydrous forms of trehalose readily regain moisture to form the dehydrate.

This product has high water retention capabilities, it is widely used in food and cosmetics. It can improve the flavour in drinks or sweets, prevent food such as cakes from dehydration and protect protein of meat or aquatic product. The application of trehalose in the cosmetics is based on its excellent characteristic of maintaining cell activity, it can help the cosmetic products with high performance of moisturizing.

The recommended dosage: 1 – 10%.

## TYPICAL PROPERTIES

Items	Specifications
Appearance (25°C)	White dry loose grain or crystalline powder
Assay, %	≥ 98.0
pH	5.0 – 6.7
Residue on Ignition, %	≤ 0.05
Loss on Drying, %	≤ 1.5
Chromaticity	≤ 0.1
Turbidity	≤ 0.05
Specific Rotation	+197 – +201
Mold and Yeast, cfu/g	≤ 100
Total Plate Count, cfu/g	≤ 100
Coliforms, MPN/100g	Negative
Salmonella	Negative
Pb, mg/kg	≤ 0.5

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Fe, mg/kg	≤ 5.0
Hg, mg/kg	≤ 0.01
Cr, mg/kg	≤ 0.1
As, mg/kg	≤ 0.5

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

## PACKAGING

25kg/bag (N.W) in kraft bag with inner PE bag.

## STORAGE

Keep away from light and moisture, to be stored in cool and dry place at room temperature.

## SHELF LIFE

36 months

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