

## DESCRIPTION

INCI Name: Nisin

CAS NO.: 1414-45-5

Chemical Formula:  $C_{143}H_{228}O_{37}N_{42}S_7$

Supershield NS 2.5 is a safe and natural preservative, effective against Gram-positive bacteria. It is a class of peptide compounds extracted from the fermentation product of *Streptococcus lactis*. It can effectively inhibit the growth and reproduction of gram-positive bacteria causing food spoilage, especially for heat-resistant *Bacillus*, *Clostridium botulinum*, *Listeria monocytogenes* and spores produced by them, and can be used for meat products, dairy products, vegetable protein food, canned food preservation. Since nisin has no action on Gram-negative bacteria, Yeasts and Moulds, they are suitable for use in fermentation of alcoholic beverages.

## TYPICAL PROPERTIES

Items	Specifications
Appearance	Light brown to milky white powder
Purity, %	≥ 2.5
Hydrous Potency, IU/mg	≥ 900
Bacteria Strain	Lactococcus Lactis
Loss on Drying, %	≤ 3
Heavy Metals (As, Pb), mg/kg	≤ 1
Sodium Chloride, %	≥ 50
Total Plate Count, cfu/g	≤ 10
Coliforms, MPN/g	≤ 3
Salmonella, cfu/25g	Absent
pH Value	3.1 – 3.6

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

## STORAGE

In cool (0-20°C), dry conditions, away from direct sunlight, in original closed packages.

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**SHELF LIFE**

24 months

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