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.

SHELF LIFE

24 months