

DESCRIPTION

INCI Name: Polylysine

CAS NO.: 25104-18-1

Structural Formula: $C_{6n}H_{14n-2(n-1)}N_{2n}O_{2n-(n-1)}$ (n = 25 – 35)

Supershield PL 100 is a safe and natural broad-spectrum preservative, effective against Gram-positive bacteria, Gram-negative bacteria, yeasts, moulds and viruses. It is suitable for a wide range of applications including food and cosmetics. Polylysine is a naturally occurring homopolyamide which consists of 25-35 L-lysine residues, produced by bacterial fermentation of *Streptomyces Albus* under aerobic conditions. It is biodegradable and nontoxic towards humans. Additionally, it has been approved as a natural antimicrobial food additive by the FDA in 2003. It is known that Polylysine is digested and broken down into lysine in the human body and is absorbed without causing any side effect.

TYPICAL PROPERTIES

Items	Specifications
Appearance	Light yellow powder
Active Content, %	≥ 95
Bacterial Strain	<i>Streptomyces Albus</i>
Solubility	Soluble in water
pH Value (1% Aqueous Solution)	4.0 – 6.5
Total Bacterial Count, cfu/100g	< 1000
Coliform, MPN/100g	< 30
Salmonella, cfu/25g	Absent
Stability	120°C 20min: No activity loss 100°C 30min: No activity loss 80°C 60min: No activity loss

* 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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