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## Product Information: SPI-Silguard 10

INCI Name: Polylysine

### Description:

SPI-Silguard 10 is a natural polyamino acid polymerized by 25 to 40 L-lysine. It is known as a "nutritional biological preservative" because it biodegrades into essential amino acid L-lysine in the human body. For formulation the material is directly dissolved in water or aqueous phase then add into the system later; can be mixed with other preservatives to enhance the preservative effect.

### Applications:

Widely used in personal care and personal cleansing products, such as lotions, masks, sprays, moisturizers, essences, gels, sunscreen lotions, liquid foundations, sunblock lotions, milk cleansers, shampoos, hair conditioners, etc.

### Features:

- ✿ Leaves Soft Velvety Skin Feeling
- ✿ Easy to Use & Water Soluble
- ✿ Broad Spectrum Antimicrobial Activity
- ✿ Good thermal stability and antibacterial activities are kept when warmed at 80°C for 60 minutes and 120°C for 20-minutes
- ✿ Wide pH application range

Specification	Typical Properties
CAS No.	25104-18-1
Appearance @ 25°C	White to Pale Yellow Powder
Content	94 % Min.
pH (1% Solution @ 25°C)	5.0 – 7.0
Loss on Drying (105°C, 2 hours)	6.0 Max

### Special Use and Safe Handling Information:

Read product and safety data sheets before handling this product for physical and health hazard information. The safety data sheet is available from your Silicones Plus products representative, or by emailing a request to [samples@siliconesplus.com](mailto:samples@siliconesplus.com).

### Shelf Life:

24 months from date of manufacture if stored in a cool, dark, dry area in sealed containers

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