



# Unilong Industry Co., Ltd

Add: No.2000 Shunhua Rd, High-Tech Zone, Jinan City, Shandong Province, China

## Technical Data Sheet

**Product Name:**Nisin

**CAS:** 1414-45-5

### Packing:

- 500 grams per plastic bottle, 20 bottles per box
- 1 kilogram per bag, 10 kilograms per box
- 25 kilograms per drum, with two layers of inner polyethylene plastic bags and composite aluminum foil bags, and outer cardboard drums.

### Chemical composition:

ITEM	STANDARD
Appearance	creamy-white powder
Content	≥900 IU/mg
Weight loss on drying	≤3.0%
Sodium chloride	≥50%
pH(1% solution)	3.2-3.8
Lead (Pb)	≤1mg/Kg
Total colony count	≤10cfu/g
Escherichia coli	<3.0MPN/g
Coliform bacteria	<3.0MPN/g
Salmonella	not detectable

Nisin is a polypeptide antibacterial substance produced by *Streptococcus lactis*, consisting of 34 amino acids. Upon entering the human body, it is decomposed by enzymes into various amino



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acids, leaving no residue, not causing drug resistance, and not affecting the probiotics in the human body. It can effectively inhibit the growth and reproduction of many Gram-positive bacteria that cause food spoilage, especially having a strong inhibitory effect on heat-resistant *Bacillus*, *Clostridium botulinum* and *Listeria*. It is a highly efficient, non-toxic, safe and side-effect natural food preservative, and has good solubility and stability.

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