



Specialized in chemicals

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Technical Data Sheet

Nisin

Product Information

Chemical Name	Nisin
CAS #	1414-45-5
Formula	C ₁₄₃ H ₂₃₀ N ₄₂ O ₃₇ S ₇
Molecular Weight	3354.07
Chemical Structure	

Description

Light brown powder. Streptococcus, security is very high. Lactic streptococcus, but with other preservatives of anti-corrosion system, can effectively protect the food from microbial destruction, now is widely used in meat products, dairy products, etc.

Physical Properties

Solubility in water is dependent on the PH value, PH 2.5 solubility was 12%, the PH value of 5.0 to 4% today, insoluble in water under neutral and alkaline conditions. PH value is 2 heat and PH value is greater than 5, the heat resistance decreased.

Specification

Item	Specification
Appearance	White to light brown micro powder
Titer ,IU/mg	≥ 900
Loss on drying, %	≤ 3.0
Sodium chloride,%	≤50.0
Lead,mg/kg	≤1.0
Salmonella	Negative in 25g
Coliforms,MPN/100g	<30
Escherichia coli	Negative in 25g

Safety

Always refer to the Material Safety Data Sheet (MSDS)

Applications

Nisin is a kind of narrow spectrum antimicrobial agent, can kill and inhibit gram-positive bacteria and yeast, gram-negative bacteria and moulds are invalid. Rules can be used in meat and dairy products in China, the largest amount of 0.5 g/kg; In the vegetable protein beverage and canned maximum usage of 0.2 g/kg

Packaging

500g/bottle,10kg/drum.25kg/drum.or packed to customer's requirement.

Storage & Handling

Do not store in direct sunlight. Store in a tightly closed container.

Store in a cool, dry, well-ventilated area away from incompatible substances.

Wash thoroughly after handling. Use with adequate ventilation. Minimize dust generation and accumulation.

Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes. Keep container tightly closed.

Avoid ingestion and inhalation.

Always refer to the Material Safety Data Sheet (MSDS) for detailed information on handling and disposal.

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