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## Nisin Preparation Specification Sheet



### 1. Description

NISINPRO™ is a natural antibacterial based on nisin, which is a polypeptide produced by strains of '*Lactococcus lactis*' subsp '*lactis*'

### 2. Application areas

NISINPRO™ is effective in a variety of food products across a wide range of pH levels (3.5-6.0), including processed cheese and cheese spreads, club cheese, blended cheese, direct acidified fresh cheese, natural ripened cheese; cream products such as flavoured, whipped, thickened, sour cream, etc.; dairy and fat based desserts, yoghurt and recombined and flavoured milks; fruit and vegetable preparations including pulp, pasteurized fruit juices, plant protein based desserts, yoghurt and recombined and flavoured milks; fruit and vegetable preparations including pulp, pasteurized fruit juices, plant protein based beverages and coconut milk; dips and snacks; pasteurized liquid egg products; low pH sauces and toppings including mayonnaise and salad dressings;

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pasteurized soups and sauces; canned vegetables; processed meats; hot plate four products such as crumpets; fermentation processes and fermentation products such as beer.

### **3. Potential benefits ,,**

- Effectively inhibits the growth of a wide range of Gram-positive bacteria. ,, Extended shelf life ,,
- Meets consumers' demand for natural products
- Enhanced product quality

### **4. Usage levels**

The recommended dosage of NISINPRO™ is in the range 25-500mg per kg or litre of food. Exact dosage cannot be stated as it depends on the nature of the product for which it is intended.

### **5. Directions for use**

NISINPRO™ should be added to heat processed foods by thorough dispersion in the food substrate prior to the heating process.

NISINPRO™ can be added directly to the food as a dry powder or as a pre-suspension in water or milk.

In certain processing situations there may be potential for adding NISINPRO™ by other methods, such as dipping or after a fermentation process, e.g. stirred yoghurt. Advice

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should be sought for these more specialized food application areas.

## 6. Composition

NISINPRO™ is composed of :

Nisin Min. 2.5% or 1000 IU/mg

Sodium chloride Min. 85%

Water Maximum 3.0%

Soybean Protein Maximum 9,5%

All percentages are by weight.

## 7. Physical/chemical specifications

Form at 25°C powder

Color off-white to cream

pH of 10% solution 3.3-3.8

Color variations may occur from batch to batch.

## 8. Microbiological specifications

Mesophilic aerobic Max.10 CFU/g

Bacteria Absent in 25g

Escherichia coli Absent in 25g

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Salmonella	Absent in 25g
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Staphylococcus	Absent in 25g
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## **9. Heavy metal specifications**

Arsenic(As)	Max. 1 ppm
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Mercury(Hg)	Max. 1 ppm
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Lead(Pb)	Max. 2 ppm
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Heavy metals as lead	Max. 10 ppm
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## **9. Nutritional data**

Energy	208 kJ/100g
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Total carbohydrate content	3.9 g/100g
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Available carbohydrate	2.6 g/100g
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Total sugar as	0.5%
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Total polyois	<0.1%
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Fat(Werner Schmid)	0.9 g/100g
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Saturates	0.42 g/100g
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Total sodium	33.6 g/100g
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Salt(sodium chloride)	83.6 g/100g
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## **11. Storage Condition:**

Store unopened between 4-20°C in dry conditions, away from direct sunlight. When opened, store between 4-20°C in original container in dry conditions, away from direct sunlight. Shelf life is 24 months when stored according to recommendations.

## **12. Packaging**

NISINPRO™ is available in 0.5 kg polyethylene bottles with integral, tamper-proof seals. Or according with demand.

## **13. Purity and legal status**

The Nisin in NISINPRO™ is food grade and meets FAO/WHO, EU and Food Chemicals Codex specifications and complies with the USA Code of Federal Regulations. The regulations governing the use of Nisin vary considerably in the countries in which it is currently approved. Local food and/or feed regulations should always be consulted concerning the status of this product, as legislation regarding its use in food or feed may vary from country to county. Advice regarding the legal status of this product is available on request.

## **14. Safety and handling**

A Material Safety Data Sheet (MSDS) is available on request.

## **15. County of origin**

China



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## **16. Kosher status**

This product is certified by the STAR-K American.

## **17. Halal status**

This product is certified Halal by the Majelis Ulama Indonesia

## **18. ISO Status**

This product is certified by the New century inspection and certification co. LTD

## **19. HACCP Status**

This product is certified by the New century inspection and certification co. LTD