



M/S. BIMAL PHARMA PVT. LTD . MUMBAI (INDIA)	FINISHED PRODUCT INFORMATIONS
QUALITY CONTROL AND ASSURANCE	PRODUCT : NISIN, E -234 (Food Preservative)
MSDS no. BPPL 119 (Available on Request)	SPECIFICATION NO. FP- 119 (Enclosed)

1. **NOMENCLATURE** : Nisitrol
2. **CAS NO.** : 1414-45-5
3. **HSN CODE** : 29181190
4. **EMPIRICAL FORMULA** : $C_{143}H_{228}O_{37}N_{42}S_7$
5. **MOL. WT.** : 3348.00
6. **STRUCTURAL FORMULA** : A Mixture of closely related Antimicrobial Polypeptides , 34 Amino acid peptide with characteristic Lanthionine rings.
7. **DESCRIPTION** : Whitish to off- White powder, Micronized Powder.
: Soluble in Water (50 mg. /ml.) ;
: 118 mg / ml. in 0.02 M HCL
: 47.9 mg / ml. in skimmed milk .
: 87.5 mg. / ml. in non – fat milk .
: 47.9 mg. / ml. in 2% NaCl Solution.
: Insoluble in non – polar solvents.
8. **APPLICATIONS** : NISIN is used as a Food preservative in a number of Thermal processed foods, particularly in Dairy products, Canned foods, Plant protein Foods and Cured Meat products and Marine Products.
: Beer & related Products.
: Liquid Egg and Egg Contained Products.
: Processed fruits and vegetables.
(Tomato Products (Juices) pH < 4.5).
: Alcoholic Beverage .

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Micronized Powder.
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: 47.9 mg. / ml. in 2% NaCl Solution.
: Insoluble in non – polar solvents.
- 3. NISIN CONCENTRATION** : ≥ 1150 (IU / mg.)
(IU / mg)
- 4. CARRIER** : Min. 50%
(Sodium Chloride)
- 5. LOSS ON DRYING** : NMT 3.0%
(Moisture Content)
- 6. HEAVY METALS** : NMT 0.001% (10 ppm)
- 7. LEAD CONTENT** : NMT 1 ppm
- 8. ARSENIC** : NMT 0.0001% (1 ppm)
- 9. PROTEIN** : Min. 15%



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11. MICROBIAL LIMIT TEST

Total Colony Count : NMT 10 CFU / gm.

Staphylococci : Negative

E. Coli (MPN/ 100 gms)
(Coli Form Bacteria) : Less than 3

Escherichia (MPN/ 100 gms) : Less than 3

Salmonella : Negative in 25 gms.

12. PACKING

: 100 gms. / 250 gms Aluminium Foil Bags
 : 500 gms. Plastic Jar
 : 1000 gms. (1.0 Kg) Plastic Jar
 : 10 Bottles / Case
 : 20 Bottle / Case
 : 15 Kgs. / 25 Kgs. Fibre drums.

13. STORAGE

: NISIN can be stored at Ambient temp.
 : It is stable for more than two years from the date of manufacture when stored in the original container, in dry conditions, at 4° C – 25° C and away from Direct Sunlight and Ultra- Violet light.
 : Keep it tightly closed and stored in cool, Dry and Shady place.

14. SHELF LIFE

: 2 Years