

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

- 1. NOMENCLATURE** : Nisitrol .
- 2. CAS NO.** : 1414-45-5
- 3. HS CODE NO. (ITC CODE)** : 29420000 / 29389000
- 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 light Brownish, 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 .

M/S. BIMAL PHARMA PVT. LTD . MUMBAI (INDIA)	FINISHED PRODUCT PHARMACOPOEIAL SPECIFICATIONS
QUALITY CONTROL AND ASSURANCE	PRODUCT : NISIN (QB 2394 – 2007) (Food Preservative)
MSDS no. BPPL 119 (Available on Request)	SPECIFICATION NO. FP- 119

- 1. DESCRIPTION** : Whitish to light Brownish, Micronized Powder.
- 2. SOLUBILITY** : 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.
- 3. NISIN CONTENT** : ≥ 1000 (IU / Mg.)
(Assay)
- 4. LOSS ON DRYING** : NMT 3.0%
(Moisture Content)
- 5. HEAVY METALS** : NMT 0.002% (20 ppm)
- 6. LEAD CONTENT** : NMT 2 ppm
- 7. CARRIER** : Min. 50%
(Sodium Chloride)
- 8. ARSENIC** : NMT 0.0001% (1 ppm)
- 9. PROTEIN** : Min. 15%
- 10. CARBOHYDRATE** : Max. 4%

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11. MICROBIAL LIMIT TEST :

Total Colony Count	: NMT 10 CFU / gm.
Staphylococci	: Negative.
E. Coli	: Negative in 25 gms.
Salmonella	: Negative in 25 gms.
Listeria	: Negative .

12. PACKING :

	: 500 gms. Plastic Bottle / Aluminium Foil Bag.
	: 1000 gms. (1.0 Kg) Plastic Bottle / Aluminium Foil Bag.
	: 10 Bottles / Case
	: 20 Bottle / Case
	: 15 Kgs. / 25 Kgs. Fibre durms.

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 .