

M/S. BIMAL PHARMA PVT. LTD . MUMBAI (INDIA)	FINISHED PRODUCT INFORMATIONS
QUALITY CONTROL AND ASSURANCE	PRODUCT : e - POLYLYSINE
MSDS no. BPPL 155 (Available on Request)	SPECIFICATION NO. FP- 155 (Enclosed)

1. **NOMENCLATURE** : Epsilon Poly L-Lysine
2. **CAS NO.** : 28211-04-3
3. **EMPIRICAL FORMULA** : $C_{6n}H_{14n-2(n-1)}N_{2n}O_{2n-(n-1)}$ (n=25-35)
: $(C_6S_{12}N_2O)_n$
4. **MOL . WT.** : 3200 to 4500
5. **MELTING POINT** : 172.8° C
6. **DESCRIPTION** : Milky Yellow to White Powder.
: Soluble in Water.
7. **APPLICATIONS** :
 - : e-Polylysine can greatly inhibit the growth of bacteria, yeasts and moulds bacteria, especially to the Gram- bacteria which can not easily inhibit by others.
 - : As a good preservative, e-Poly lysine is highly safe, water- soluble, stable at high temp., widely usage, non prejudice to the taste, Antibacterial in neutral or subacidity conditions.
 - : Because of the stability at high Temp., it can inhibit some heat-resistant bacillus after heat treatment.
 - : e – Poly Lysine can stop small intestine fat absorption through inhibiting pancreatic lipase activities, so it can be the diet therapy for obese patients.
 - : Besides, e – Poly Lysine also can be used in Cosmetics, Disinfectant or Cleaner for food machinery or hutch, etc.

M/S. BIMAL PHARMA PVT. LTD . MUMBAI (INDIA)	FINISHED PRODUCT PHARMACOPOEIAL SPECIFICATIONS
QUALITY CONTROL AND ASSURANCE	PRODUCT : e – POLYLYSINE (Food Preservative)
MSDS no. BPPL 155 (Available on Request)	SPECIFICATION NO. FP- 155

- 1. DESCRIPTION** : Milky Yellow to White Powder.
- 2. SOLUBILITY** : Soluble in Water.
- 3. MOISTURE CONTENT** : NMT 20% (generally, 4%)
- 4. pH
(1% Aqueous solution)** : 4.0 to 6.5
- 5. PURITY** : More than 95% (Generally, 99%)
- 6. ARSENIC (As)** : NMT 4 ppm
- 7. HEAVY METALS (Pb)** : NMT 4 ppm
- 8. ASH** : NMT 5.5% (Generally, less than 1.0 %)
- 9. MICROBIAL LIMIT TEST** :
 - Total Colony Count : NMT 100 cfu/gm.
 - Coliform group : NMT 30 / 100 gms.
 - E. Coli : Absent
 - Salmonella : Absent (CFU/ 25 gms)
- 10. PACKING** :
 - 250 gms./ 500 gms. Plastic Bottle / Aluminium Foil Bag.
 - 1000 gms. (1.0 Kg) Plastic Bottle / Aluminium Foil Bag.
 - 10 Bottles / Case
 - 20 Bottle / Case
 - As per customer's requirement.
- 11. STORAGE** :
 - Store in cool (0-20°C), and dry conditions.
 - Keep away from direct sunlight in original unopened packs.
- 12. SHELF LIFE** : 2 Years.