



<b>M/S. BIMAL PHARMA PVT. LTD . MUMBAI (INDIA)</b>	<b>FINISHED PRODUCT INFORMATIONS</b>
QUALITY CONTROL AND ASSURANCE	<b>PRODUCT : e – POLYLYSINE, 20% (Liquid)</b>
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. **DESCRIPTION** : Light Yellow Liquid  
: Soluble in Water
6. **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 sub acidity conditions.  
: Because of the stability at high Temp., it can inhibit some heat-resistant bacillus after heat treatment.  
: Besides, e – Poly Lysine also can be used in Cosmetics, Disinfectant or Cleaner for food machinery or hutch, etc.

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1. **DESCRIPTION** : Light Yellow Liquid
2. **SOLUBILITY** : Soluble in Water
3. **pH  
(1% Aqueous solution)** : 8.0 to 10.5
4. **CONTENT OF POLYLYSINE  
By HPLC** : 19.5 to 21.0
5. **ARSENIC (As)** : NMT 3.0 ppm
6. **LEAD (Pb)** : NMT 2.0 ppm
7. **ASH  
(RESIDUE ON IGNITION)** : NMT 2.0%
8. **CHLORIDE (Cl)** : NMT 3.0 ppm
9. **MICROBIAL LIMIT TEST** :
  - Total Plate count : NMT 10 cfu/gms.
  - Coliform Bacteria : NMT 30 / 100 gms.
10. **PACKING** : 1 Ltr. / 5 Ltr. Plastic Bottle / Jar  
: As per customer's requirement.
11. **STORAGE** : Store in cool (10-25°C), and dry conditions.  
: Keep away from direct sunlight in original unopened packs.
12. **SHELF LIFE** : 1 Year