



## Elix-KON IMU

INCI Imidazolidinyl urea  
CAS 39236-46-9

### SPECIFICATIONS

Appearance White granular  
Assay (%) 99 min

### GENERAL INFORMATION

Elix-KON IMU is a fine white powder and is used as a cosmetic preservative. As a cosmetic preservative it shows high efficacy against gram-negative and gram-positive bacteria, yeasts and molds.

Elix-KON IMU is easy to work with. It does not alter the appearance of cosmetic products or have an effect on the odor and viscosity of a finished cosmetic product. A low dosage level reduces final production costs.

### FORMULATIONS & RECOMMENDATIONS

Recommend usage of Elix-KON IMU is a dosage level of 0.2–0.4 %. It is very soluble in water and polar solvents but not in oils or non-polar solvents. The working temperature should not be above 50 °C. Elix-KON IMU is not pH sensitive and is very effective in a pH range of 3 to 9.

**Recommended use concentration**  
0.2 – 0.4% in combination with antifungals

**Solubility**  
highly soluble in polar solvents and water

### BENEFITS

- High preservation activity against bacteria
- Reduced final costs due to low dosage level
- Not pH sensitive
- Doesn't change the appearance of cosmetics
- Effective against bacteria, yeasts and molds

### APPLICATIONS

- Cosmetics**
- Skin care
  - Sun care
  - Make up
  - Hair care
  - Toiletries

### EFFICACY

Elix-KON IMU is highly effective against Gram-negative & Gram-positive bacteria. It is slightly active at the use levels against yeasts & molds.

Below is a chart resuming the Minimum Inhibitory Concentration (MIC) of Elix-KON IMU in ppm

Microorganism	MIC
<b>Gram-negative bacteria</b>	
Escherichia coli	440
Pseudomonas aeruginosa	440
<b>Gram-positive bacteria</b>	
Staphylococcus aureus	310
Streptococcus lactis	312
<b>Molds</b>	
Aspergillus niger	6000
<b>Yeast</b>	
Candidas albicans	8000

### SHELF LIFE

36 months under proper storage conditions

