

TECHNICAL DATA SHEET

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.

FORMULATION AND 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

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 Imidazolidinyl urea in ppm

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

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
- Toiletries
- Makeup
- Hair care

SHELF LIFE

36 months under proper storage conditions