

TECHNICAL DATA SHEET

Elix-KON DB

INCI Benzyl alcohol, Dehydroacetic acid, Aqua

CAS 100-51-6 / 520-45-6 / 7732-18-5



SPECIFICATIONS

Appearance	Clear, pale-yellow liquid
Odor	Light, characteristic

GENERAL INFORMATION

Elix-KON DB is a liquid preservative mixture based on nature-identical ingredients which are well-established and globally accepted.

Elix-KON DB provides a strong broad-spectrum efficacy against gram+ and gram- bacteria as well as yeast and molds.

Elix-KON DB is gentle to the skin and suitable for use in natural and organic cosmetics within the pH range of 3 to max. 6.5.

FORMULATION AND RECOMMENDATIONS

Elix-KON DB can be added at room or elevated temperatures and at any time during the manufacturing process. Additionally, it is compatible in all types of formulations: anionic, non-ionic, and cationic.

Recommended use concentration

0.2% – 0.8%

Solubility

Low solubility in water, Elix-KON DB is soluble in a wide range of other solvents

EFFICACY

Elix-KON DB provides a strong broad-spectrum efficacy against gram+ and gram- bacteria as well as yeast and molds.

Below is an overview showing the Minimum Inhibitory Concentration (MIC) and the Minimum Biocidal Concentration (MBC) of Elix-KON DB at pH 5.

Microorganism	MIC	MBC
Gram-negative bacteria		
Escherichia coli	0.30%	0.50%
Pseudomonas aeruginosa	0.35%	0.70%
Gram-positive bacteria		
Staphylococcus aureus	0.30%	0.70%
Yeast		
Candida albicans	0.40%	0.60%
Molds		
Aspergillus niger	0.15%	0.50%

BENEFITS

- Can be used for ECOCERT/COSMOS/NATRUE formulations
- Easy to handle liquid formulation
- Strong broad-spectrum efficacy against gram+ and gram- bacteria as well as yeasts and molds
- Stable and effective over a wide pH range (but max. 6.5)
- Head space protection due to presence of Benzyl alcohol
- Ingredients are approved for use in rinse-off and leave-on formulations

APPLICATIONS

Cosmetics

- Skin care
- Oral care
- Baby care
- Wet wipes
- Toiletries
- Sun care
- Hair care
- Makeup
- Facial masks

REGULATORY

ECOCERT / COSMOS	Approved
NATRUE	Approved

SHELF LIFE

12 months under proper storage conditions