



LABORATOIRES SÉROBIOLOGIQUES

Division de Cognis France

ELESTAB® 388

POLYVALENT PRESERVATIVE SYSTEM

DEFINITION / COMPOSITION

ELESTAB® 388 is a liquid, ready-to-use hydrosoluble preservative system designed for microbiological stabilization of cosmetic preparations.

ELESTAB® 388 can be used for the protection of various types of formulations: O/W and W/O emulsions, masks, lotions, tonics, gels, sticks, serums, rinse-off preparations.

Components:

ELESTAB® 388 is a mixture of: **Phenoxyethanol**, **Chlorphenesin**, and **Methylparaben** in propylene glycol.

ANTIMICROBIAL PROPERTIES

ELESTAB® 388 has a microbiostatic and microbicidal activity, with a **large spectrum** on **Gram+** and **Gram- bacteria, fungi** and **yeasts** (See the table below).

Strains	ELESTAB® 388 Concentration (%)	
	MIC (*)	MMC (**)
Bacteria		
<i>Staphylococcus aureus</i> NCTC 10788	1	1
<i>Staphylococcus epidermidis</i> NCIMB 8853	1	2.5
<i>Lactobacillus brevis</i> NCIMB 11973	1	1
<i>Lactococcus lactis</i> NCIMB 6681	1	1
<i>Corynebacterium xerosis</i> NCTC 8481	0.5	1
<i>Escherichia coli</i> NCIMB 8545	0.5	1
<i>Enterobacter cloacae</i> NCIMB 10101	0.5	1
<i>Klebsiella aerogenes</i> NCTC 7427	0.5	1
<i>Klebsiella pneumoniae</i> NCIMB 10341	0.5	1
<i>Proteus vulgaris</i> NCIMB 4175	0.5	1
<i>Pseudomonas fluorescens</i> ATCC 12842	1	1
<i>Pseudomonas aeruginosa</i> NCIMB 8626	1	1
<i>Salmonella typhimurium</i> NCIMB 10258	0.5	1
<i>Serratia marcescens</i> NCIMB 11851	1	1
Fungi		
<i>Aspergillus niger</i> IMI 149007	1	2.5
<i>Penicillium funiculosum</i> ATCC 9644	0.5	2.5
Yeasts		
<i>Candida albicans</i> NCPF 3179	1	2.5
<i>Saccharomyces cerevisiae</i> NCPF 3178	1	2.5

(*) MIC = Minimum Inhibitory Concentration
(**) MMC = Minimum Microbicidal Concentration

COSMETIC USE

ELESTAB® 388 is a polyvalent preservative system for cosmetic products such as:

- skin care products for face, hands, feet: emulsions, gels...
- leave-on and rinse-off hair care products: lotions, balms, shampoos, creams...
- preparations for bath and shower,
- deodorants (lotions, sticks),
- shaving products,
- beauty masks,
- sun care formulations.

When ELESTAB® 388 is used in emulsified cosmetic preparations, it may be necessary, in particular cases, to associate it with a liposoluble preservative system, such as

ELESTAB® 4121 or ELESTAB® 4150 LIPO, to complete its antimicrobial activity.

For example ELESTAB® 4121 could be added at a concentration of 0.20% in the finished cosmetic preparation.

DOSAGE / SOLUBILITY / MODE OF INCORPORATION

1. Dose of use: 1 to 2.5%.

The relevant antimicrobial protection of the cosmetic product has to be checked by a challenge test.

2. Solubility: ELESTAB® 388 is soluble in water (40 - 60°C) soluble in ethanol and insoluble in oils and fats.

3. Mode of incorporation:

Emulsions:

ELESTAB® 388 is introduced in the aqueous phase of the emulsion, previously heated to about 75°C.

Hydrogels, foaming products, tonics:

- ELESTAB® 388 must be introduced in the aqueous phase, under stirring, at room temperature or better around 40°C; keep on stirring to reach perfect dissolution and homogeneity.
- ELESTAB® 388 can also be introduced into the finished preparation, at room temperature (case of foaming baths, shampoos), the agitation must be maintained until perfect distribution.

COMPATIBILITY / INCOMPATIBILITY

No incompatibility has been observed with cosmetic raw materials.

The suitable pH is between 3 and 9.

ANALYTICAL CHARACTERISTICS

1. Aspect: colorless to pale yellow liquid with a characteristic odor.

2. Specifications: upon request.

TOLERANCE

Good.

STORAGE

In its original packaging, at 15 - 25°C.

REGULATORY STATUS

Approved: USA, EC, Japan, Australia, Canada.

INCI NAME

Propylene Glycol (and) Phenoxyethanol (and) Chlorphenesin (and) Methylparaben.

MANUFACTURER / SUPPLIER

Laboratoires Sérobiologiques, division de Cognis France.