



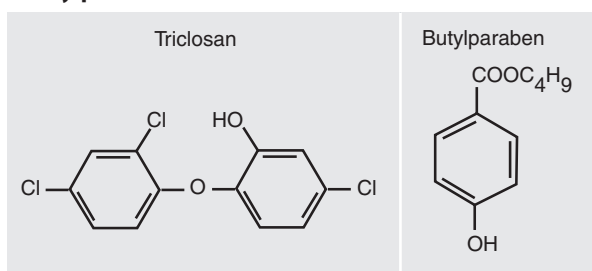
DEFINITION / COMPOSITION

ELESTAB® 4121 is a liposoluble preservative system designed for microbiological stabilization of cosmetic preparations.

Components:

ELESTAB® 4121 is a mixture of:

- **triclosan** = 5-chloro-2-(2,4-dichlorophenoxy) phenol,
- **butylparaben**.



ANTIMICROBIAL PROPERTIES

Strains	ELESTAB® 4121 Concentration (µg/ml)	
	MIC (*)	MMC (**)
Bacteria		
<i>Staphylococcus aureus</i> NCTC 10788	<5	40
<i>Staphylococcus epidermidis</i> NCIMB 8853	<5	40
<i>Lactobacillus brevis</i> NCIMB 11973	20	40
<i>Lactococcus lactis</i> NCIMB 6681	10	20
<i>Corynebacterium xerosis</i> NCTC 8481	5	5
<i>Escherichia coli</i> NCIMB 8545	10	40
<i>Enterobacter cloacae</i> NCIMB 10101	<5	20
<i>Klebsiella aerogenes</i> NCTC 7427	<5	20
<i>Klebsiella pneumoniae</i> NCIMB 10341	<5	40
<i>Proteus vulgaris</i> NCIMB 4175	<5	40
<i>Pseudomonas aeruginosa</i> NCIMB 8626	10	20
<i>Pseudomonas putida (fluorescens)</i> ATCC 12842	10,000	>10,000
<i>Salmonella typhimurium</i> NCIMB 10258	10	40
<i>Serratia marcescens</i> NCIMB 11851	10,000	>10,000
Fungi		
<i>Aspergillus niger</i> IMI 149007	156	625
<i>Penicillium pinophilum</i> ATCC 9644	40	80
Yeasts		
<i>Candida albicans</i> NCPF 3179	80	156
<i>Saccharomyces cerevisiae</i> NCPF 3178	80	80

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

COSMETIC USE

ELESTAB® 4121 is a liposoluble preservative system suitable for cosmetic preparations such as:

- W/O or O/W emulsions (creams, lotions),
- makeup products,
- anhydrous oily or glycolic gels,
- antiperspirants.

When ELESTAB® 4121 is used in emulsified formulations, it is necessary to add a hydrosoluble preservative system to complete its antimicrobial activity.

For example, ELESTAB® 388 could be added at a concentration of 2.5% in the finished cosmetic preparation.

DOSAGE / SOLUBILITY / MODE OF INCORPORATION

1. Dose of use: 0.10 to 0.30%.

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

2. Solubility: ELESTAB® 4121 is soluble in oils and fats (75 - 80°C), soluble in polyols and insoluble in water.

3. Mode of incorporation:

Emulsions:

ELESTAB® 4121 is introduced under stirring into the fatty phase of the emulsion previously heated at 75 - 80°C, keep on stirring to reach perfect dissolution and homogeneity.

Antiperspirants:

ELESTAB® 4121 is dissolved in the polyol (propylene glycol, butylene glycol...).

COMPATIBILITY / INCOMPATIBILITY

No major incompatibility with cosmetic raw materials has been observed.

To avoid any risk of crystallization, do not incorporate ELESTAB® 4121 in emulsions with a low oily phase.

The suitable pH is between 3 and 8.

ANALYTICAL CHARACTERISTICS

1. Aspect: white fine powder 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

Triclosan (and) Butylparaben.

MANUFACTURER / SUPPLIER

Laboratoires Sérobiologiques, division de Cognis France.