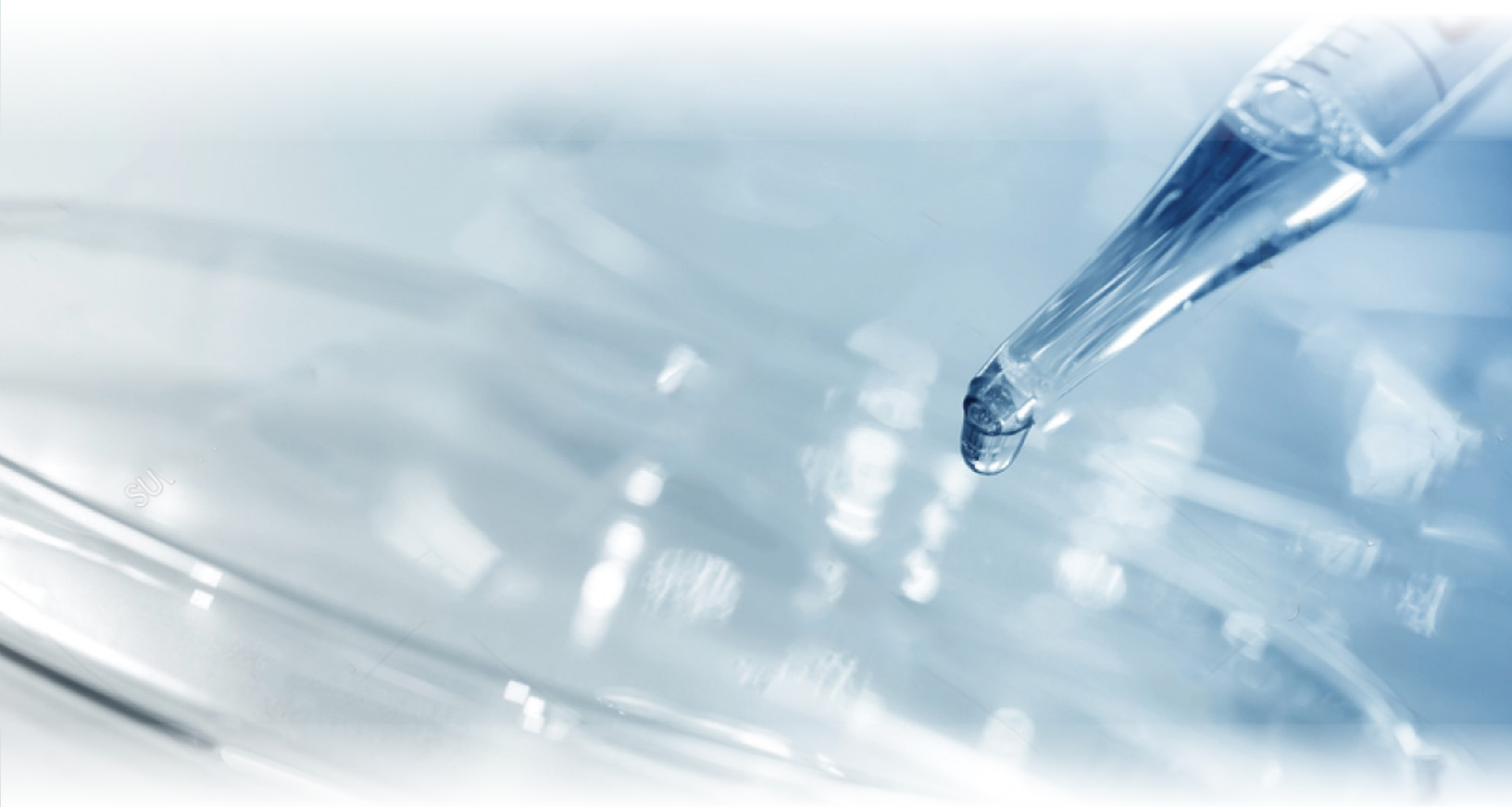


B-STAT

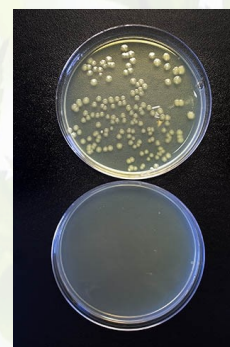
The Natural Antimicrobial System for a
Safe Broad-Spectrum Cosmetic Preservation



B-STAT

Nowadays cosmetic industry has been more and more driven toward natural ingredients by consumers awareness about their will for safer cosmetics made of natural ingredients which often involve preservatives at the center of contentions.

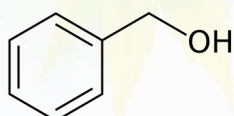
In order to meet these needs, Naturalis has developed a preservative that combines two fundamental characteristics: complete naturality and effectiveness.



B-STAT NATURAL INGREDIENTS

B-STAT is an innovative, under patent, broad spectrum antibacterial/antifungal based on two natural molecules extracted from Magnolia bark (Magnolol and isomer Honokiol) solubilized in Benzyl Alcohol.

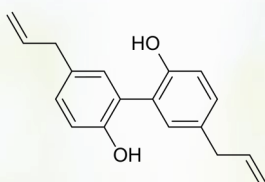
BENZYL ALCOHOL



BACTERIOSTATIC

Used as antimicrobial preservative against bacteria, molds, fungi, and yeasts

MAGNOLOL/HONOKIOL



ANTI-OXIDANT & ANTI-INFLAMMATORY

Reduce inflammatory signals and dermal matrix degradation

Magnolol and Honokiol are two molecules obtained by CO₂ supercritical extraction from magnolia's bark, with a wide range of beneficial activities, such as anti-inflammatory and antioxidant.

In addition these compounds have an important antimicrobial action and, consequently, they can represent a valid alternative to synthetic preservatives.



Benzyl Alcohol is a bacteriostatic molecule naturally present in many plants and is commonly found in a variety of essential oils including jasmine, hyacinth and ylang-ylang.

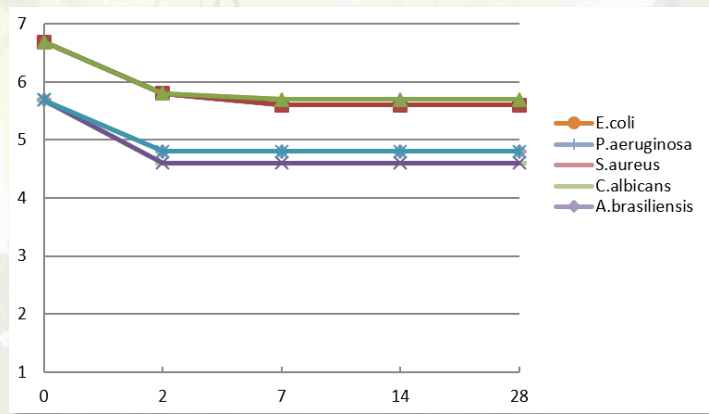
This blend shows a strong activity against bacteria (Gram+ and Gram-) and against moulds and yeasts.

B-STAT PROPERTIES

- Effective against Gram + and Gram -
- Effective against moulds and yeasts
- Radical scavenger
- Anti-inflammatory
- Anti-lipid peroxidation
- Good compatibility with anionic and non-ionic surfactants
- Resistant to hydrolysis
- Biodegradable 100%

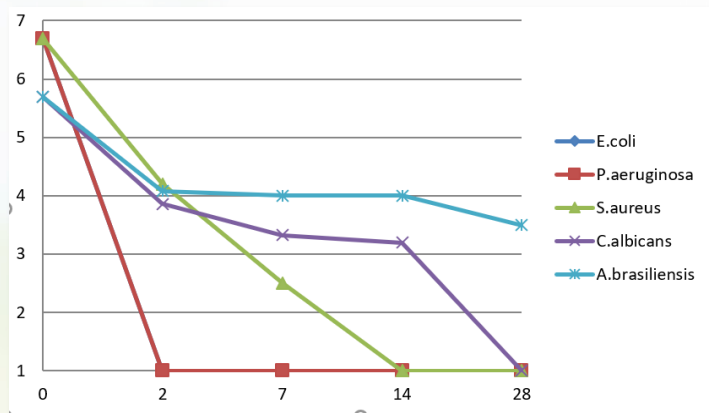
B-STAT CHALLENGE TEST

EMULSION WITHOUT PRESERVATIVE	%
AQUA	To 100
GLYCERIN	2,0
XANTHAN GUM	0,1
PHYTOCARE-OL	3,5
GLYCERYL STEARATE	1,0
CETEARYL ALCOHOL	5,0
ETHYLHEXYL PALMITATE	7,0
ISOPROPYL PALMITATE	5,0
-	-



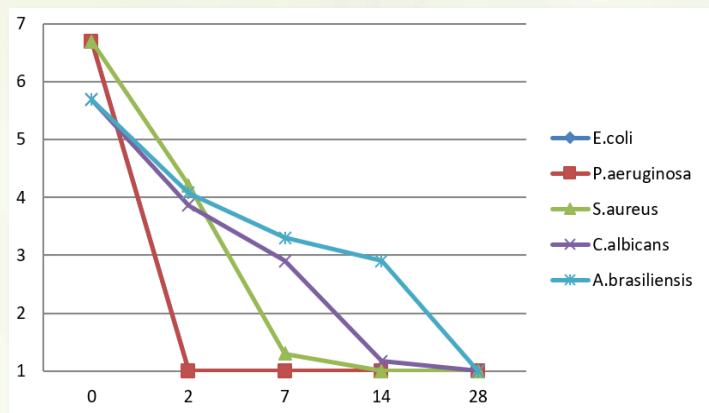
CHALLENGE TEST WITHOUT PRESERVATIVE

EMULSION + B-STAT 0,6%	%
AQUA	To 100
GLYCERIN	2,0
XANTHAN GUM	0,1
PHYTOCARE-OL	3,5
GLYCERYL STEARATE	1,0
CETEARYL ALCOHOL	5,0
ETHYLHEXYL PALMITATE	7,0
ISOPROPYL PALMITATE	5,0
B-STAT	0,6



CHALLENGE TEST WITH B-STAT 0,6%

EMULSION + B-STAT 1%	%
AQUA	To 100
GLYCERIN	2,0
XANTHAN GUM	0,1
PHYTOCARE-OL	3,5
GLYCERYL STEARATE	1,0
CETEARYL ALCOHOL	5,0
ETHYLHEXYL PALMITATE	7,0
ISOPROPYL PALMITATE	5,0
B-STAT	1,0



CHALLENGE TEST WITH B-STAT 1,0%

INCI NAME

Magnolol/Honokiol, Benzyl Alcohol

SAFETY DATA

The product has been tested to evaluate the irritative potential on the skin

IN VITRO TEST ON RECONSTRUCTED EPIDERMIS (MatTEK Corp US): Negative

IN VIVO PATCH TEST: Negative

IN VIVO REPEATED PATCH TEST: Negative

**B-STAT IS COMPLETELY
NON-IRRITANT FOR THE SKIN**

COSMETIC USE: Natural Preservative

TYPICAL PROPERTIES:

Appearance: Clear Liquid

Color: from Yellowish to Light Brown

Density: 0,9 - 1,1 g/ml

DOSAGE: 0,6-1%

OPTIMUM pH: 4.0 - 8.0

HANDLING PROCEDURE

The product must be stored at a temperature not lower than 25°C. In case of solidification of the product: heat to bring it back to the liquid state. Keep containers closed when not in use, avoid light.

PACK SIZE AVAILABLE: 5kg and 20kg tanks

SHELF LIFE: Store in unopened containers for 2 years

CERTIFICATION STATUS

- Natural product
- GMO Free
- Allergen Free
- Not tested on animals

SAFETY & TOXICITY

Reference COMMISSION REGULATION (EC) No 987/2008 of 8 October 2008 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH):

- non-irritating

CONFORMITY

- Natrue
- Ecocert
- COSMOS

COMPLIANT REGULATION

US - EU - China - Japan

MANUFACTURER

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