

TRIStat E MODERN PRESERVATIVE BASED ON NATURE-IDENTICAL INGREDIENTS



INCI: Benzyl Alcohol, Potassium Sorbate, Sodium Benzoate, Water

BENEFITS

Broad spectrum preservative system

Active at pH <5.5 $\,$

Gentle to the skin

Soluble in glycerin, glycols & water

FEATURES

Based on nature-identical ingredients

Free from parabens, formaldehyde donors & isothiazolinones

Permitted in ECOCERT/COSMOS formulations

Cost effective modern system

APPLICATIONS

Natural & organic formulations

Aqueous gels & serums

Surfactant based formulations

Face & body creams and lotions

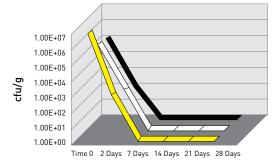
Soluble in select oil based formulation

FORTIFY • PROTECT • UNIQUE

TRIstat E

MODERN PRESERVATIVE BASED ON NATURE-IDENTICAL INGREDIENTS

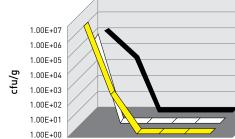
PRESERVATION EFFICACY IN OIL/WATER EMULSION, pH 5.5 WITH 1.2% TRISTAT E



1.2% TRIstat E has shown to be effective in preserving the tested formula in 7 days

STRAINS	0 DAYS	2 DAYS	7 DAYS	14 DAYS	21 DAYS	28 DAYS	RESULTS
E. coli O P. aeruginosa S. aureus	7.7·10 ⁶ 7.7·10 ⁶ 7.7·10 ⁶	7.5·10 ² 7.5·10 ² 7.5·10 ²	<10 <10 <10	<10 <10 <10	<10 <10 <10	<10 <10 <10	Passed Passed Passed
O C. albicans	2.5•10⁵	4.2·10 ²	<10	<10	<10	<10	Passed
• A. niger	1.4•105	1.6•10 ²	<10	<10	<10	<10	Passed

PRESERVATION EFFICACY IN PEG & SULFATE-FREE SHOWER BATH, pH 5.0 WITH 0.7% TRISTAT E



Time 0 2 Days 7 Days 14 Days 21 Days 28 Days

0.7% TRIstat E has shown to be effective in preserving the tested formula in 7 days

STRAINS	0 DAYS	2 DAYS	7 DAYS	14 DAYS	21 DAYS	28 DAYS	RESULTS
E. coli O P. aeruginosa S. aureus	7.7.10 ⁶ 7.7.10 ⁶ 7.7.10 ⁶	2.7.10 ² 2.7.10 ² 2.7.10 ²	<10 <10 <10	<10 <10 <10	<10 <10 <10	<10 <10 <10	Passed Passed Passed
O C. albicans	2.5•10⁵	<10	<10	<10	<10	<10	Passed
● A. niger	1.4•10⁵	2.7·10 ³	<10	<10	<10	<10	Passed

EFFICACY TESTS

The antimicrobial activity of **TRIstat E** in different cosmetic formulations was evaluated by challenge testing, using a modified European Pharmacopoeia method

INHIBITORY (MIC) & BIOCIDAL (MBC) ACTIVITY OF TRISTAT E IN PPM

TEST ORGANISMS (≈10ºCFU/ML)	мвс	міс
Gram-negative bacterium Escherichia coli	5000	2000
Gram-negative bacterium Pseudomonas aeruginosa	5000	2500
Gram-positive bacterium Staphylococcus aureus	4000	1750
Yeast Candida albicans	3500	3000
Mold Aspergillus niger	6000	4000

TRIstat E has bacteriostatic & fungistatic effect at levels of 0.4%. It exhibits bactericidal & fungicidal activity at 0.6%

PROPERTIES

TRIstat E is a unique and very effective preservation system suitable for the protection of cosmetics against microbial contamination

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