

TeraStat N™



Clean & Natural Preservation

Actera

TeraStat N is the first natural preservation system to use the high performing biostatic agent CGE. CGE is an important biolipid (alkyl glyceryl ether) originally found in human breast milk and in marine animals (e.g., shark liver oil). It is more stable and effective than glyceryl esters.

Historically the ester Glyceryl Caprylate (GMCY) has been one of the few options for natural cosmetic preservation. But GMCY is unstable, degrades, and gives variable performance in cosmetic formulations. Using CGE avoids these problems. The combination of CGE, CHA, and PDO is the most effective, stable, and gentle natural preservative yet.

INCI

Caprylyl Glyceryl Ether (and) Caprylhydroxamic Acid (and) Propanediol

- **Caprylyl Glyceryl Ether (CGE)**
Natural biolipid made from 100% renewable vegetable fatty acid and glycerin.
- **Caprylhydroxamic Acid (CHA)***
From 100% natural vegetable fatty acid. This molecule is fungistatic.
- **Propanediol (PDO)**
Fermented natural diol that boosts efficacy of CGE and CHA while reducing irritation.

* For intellectual property purposes, composition contains additional additive hydroxamic acids. See product dossier for full compositional statement.

Applications

Suitable for all-natural and clean beauty formulations where a single system for broad-spectrum microbial preservation is preferred.

Guidelines

Use level: 1.5 to 2.5%

Recommended procedure: add TeraStat N to the water phase of any cosmetic and personal care formulation.

For clear systems, add 2-15% glycols to optimize solubility.

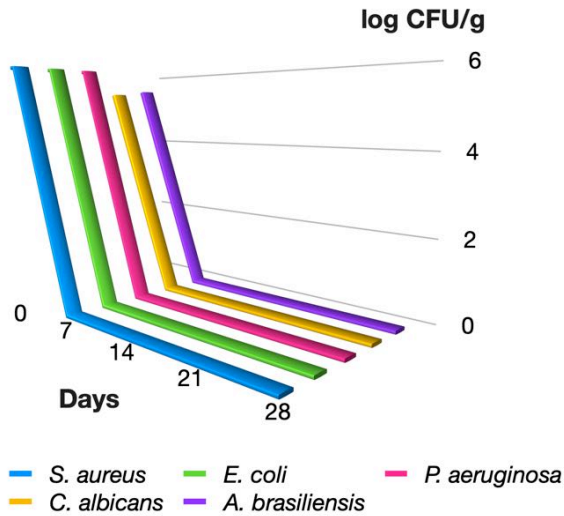
Suitable for hot and cold processes.

Benefits

- Reliably passes challenge tests in all types of formulation, even at neutral pH.
- Highly efficient against bacteria, yeast, and mold.

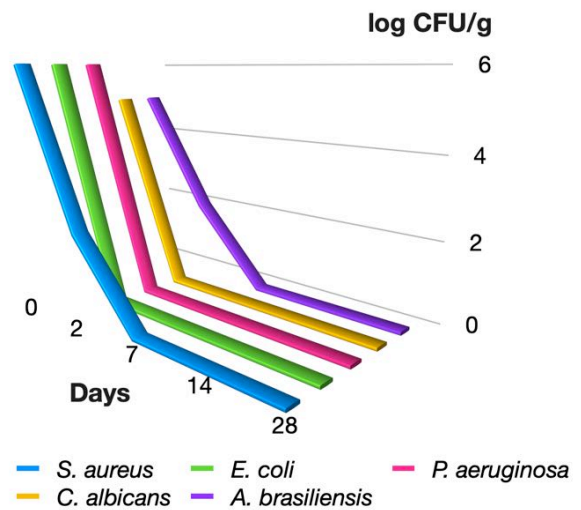
TeraStat N Performance

1. Body Lotion, pH 6.5



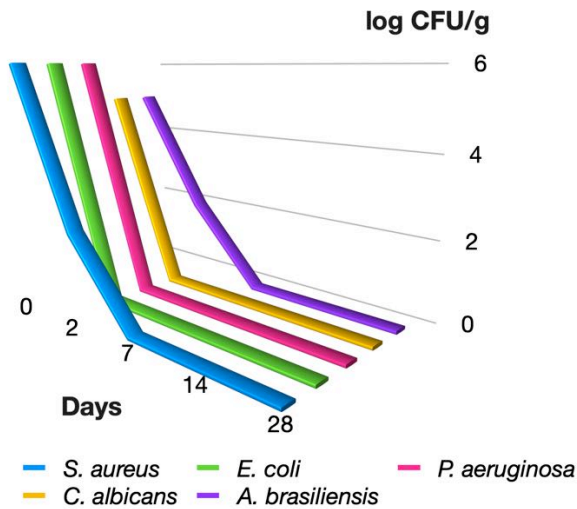
Formulation 1 was preserved with
TeraStat N at 2.0%

2. Facial Cream, pH 6.0



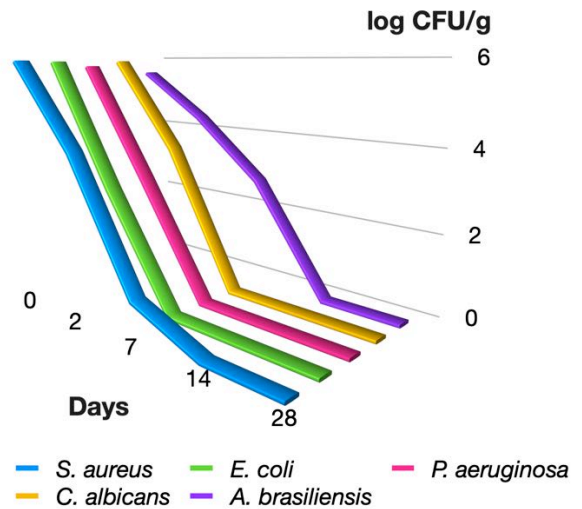
Formulation 2 was preserved with
TeraStat N at 2.0%

3. Facial Cleanser, pH 6.0



Formulation 3 was preserved with
TeraStat N at 2.5%

4. Tinted Foundation, w/o



Formulation 4 was preserved with
TeraStat N at 2.0%

All preservative efficacy tests performed at independent laboratories.

Actera

66 Walker Lane • Newtown, PA 18940 • USA
+1 (215) 525-4564
acteraingredients.com