

BEAUTÉ BY ROQUETTE® LS 007

Preservatives in cosmetic products are critical and most of the time mandatory but they also have a bad consumer reputation! That is why the market is looking for natural alternatives that will boost their efficiency whilst limiting their usage level.

Discover **Beauté by Roquette® LS 007** 100% plant-based **preservative booster** to **reduce** the level of listed **preservatives** while helping to preserve your cosmetic formulations and **protect it from bacteria, yeast & mold!**

BENEFITS AT A GLANCE:

- » Patent pending composition
- » Efficient thanks to a synergistic effect between Gluconic acid, Caprylyl/Capryl Glucoside and Lemongrass oil
- » Effective against bacteria, yeast & molds
- » Boost the protection against microorganisms from pH 4 to pH 6
- » Easy to use & ready to dilute in water

INCI NAME:

Gluconic acid, Caprylyl/Capryl Glucoside, Cymbopogon Citratus Leaf Oil

PHYSICAL ASPECT:

Liquid colored solution
Water clear at 1.5% in aqueous solution

ORIGIN:

100% Plant-based



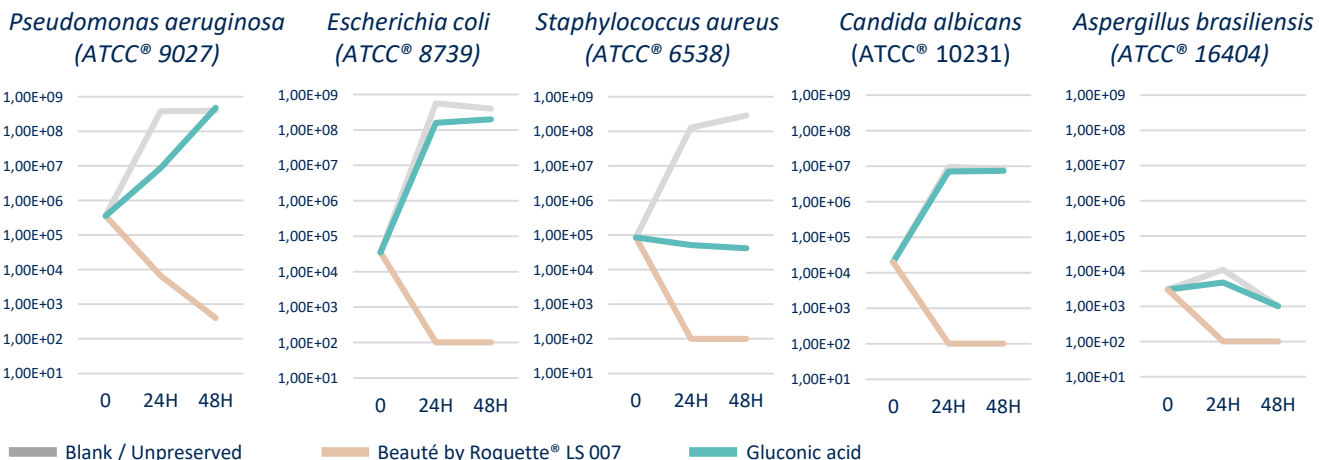
Cno*=100%

Natural Origin Content

EFFECTS ON BACTERIA & FUNGI, *in vitro* tests:

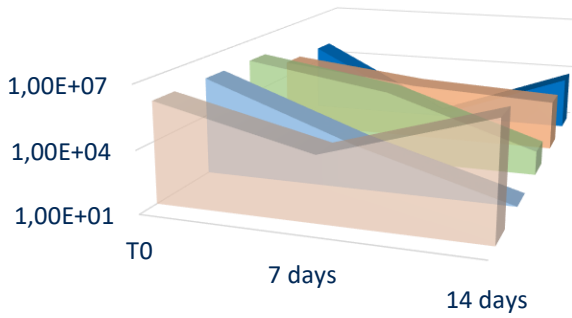
Different samples were prepared in sterile conditions. **Beauté by Roquette® LS 007 was added at 1.5 %** and two control samples were prepared with water at 1.5% (blank/unpreserved) or with gluconic acid at 1.5%.

Beauté by Roquette® LS 007 inhibits the growth of 5 microbial strains and is efficient vs blank and vs gluconic acid alone.

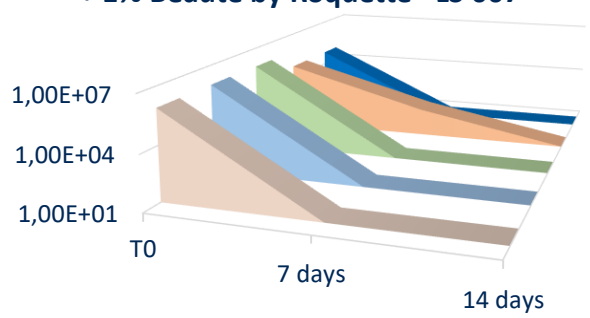


PRESERVATIVE BOOSTER, CHALLENGE TEST AT pH 6 (O/W emulsion)

0,4% potassium sorbate alone



0,4% potassium sorbate + 1% Beauté by Roquette® LS 007



■ *Pseudomonas aeruginosa* ■ *Staphylococcus aureus*
 ■ *Escherichia coli* ■ *Candida albicans*
 ■ *Aspergillus brasiliensis*

■ *Pseudomonas aeruginosa* ■ *Staphylococcus aureus*
 ■ *Escherichia coli* ■ *Candida albicans*
 ■ *Aspergillus brasiliensis*

Beauté by Roquette® LS 007, at 1% concentration in an O/W emulsion and at pH 6, performs very well with potassium sorbate and **fulfills criteria A** of ISO norm 11930.

RECOMMENDED APPLICATIONS & GUIDELINES:

All cosmetics applications
 Water soluble, to disperse at the end of the process
 Compatible with anionic & cationic surfactant, sodium chloride, ethanol (up to 10%)

pH OF USE:

- 4 to 6

RECOMMENDED USE LEVELS:

- From 0.5% to 2.5%

FORMULATION EXAMPLE: Cotton Cream – O/W emulsion

	INGREDIENT (INCI)	% W/W
PHASE A	Cetyl Alcohol, Glyceryl Stearate, PEG-75 Stearate, Ceteth-20, Steareth-20	5.00
	Caprylic/capric triglycerides	10.00
	Sweet almond oil	10.00
	Cetyl alcohol	2.00
PHASE B	Beauté by Roquette® ST 012	1.50
PHASE C	Aqua	to 100
	Xanthan Gum	0.30
PHASE D	Beauté by Roquette® LS 007	1
	Potassium sorbate	0.4

PROCESS:

1. Heat phase A to 75° C while stirring; add phase B into phase A and homogenize. Heat phase C
2. Under strong agitation, add phase A+B into phase C; keep stirring (3000 rpm) for 10 min at 75° C. Cool down to 45° C and add phase D under medium agitation.
3. Cool down to room temperature under very gentle agitation.

FORMULATION SPECIFICATIONS – SC-039-000

ASPECT	White emulsion
VISCOSITY	Viscosity Brookfield (mPa.s) 20 000 +/- 4000, RV TD V20; 1 minute
STABILITY	1 month at 50° C, 40° C and at Room Temperature