INNOVA

Vercatech SYNERECO8

Natural multifunctional active

Description and applications:

Natural multifunctional blend of ingredients that offers both solubilizing properties and good antimicrobial protection that allows you to develop self-preserving products without needing traditional preservatives. Therefore, Vercatech SYNERECO8 is an alternative cost-effective multifunctional preservative system.

The mixture has synergistically acting ingredients easy to use, specially optimized to cover aqueous systems with pH independent antimicrobial activity and clear formulae. This allows you to harmonize the preservative system for most of all your aqueous portfolio. Furthermore, SYNERECO8 has a very good toxicological profile of their components, and thanks to their synergy, a very low content of active matter at the recommended dosage into the final product, minimizing the risk of irritation.

INCI:

Propanediol, Phenyl Alcohol, Phenylpropanol

Appearance:

Colorless liquid

Origin:

SYNERECO8 is obtained from sustainable palm oil origin

Recommended use level	pH-range
Aqueous systems: 4,0-5,0 %	Independent

Formulation Advices:

In aqueous systems of low viscosity add Vercatech SYNERECO8 whenever is desired.
For viscous systems, add Vercatech SYNERECO8 at the beginning before adding the thickener system.

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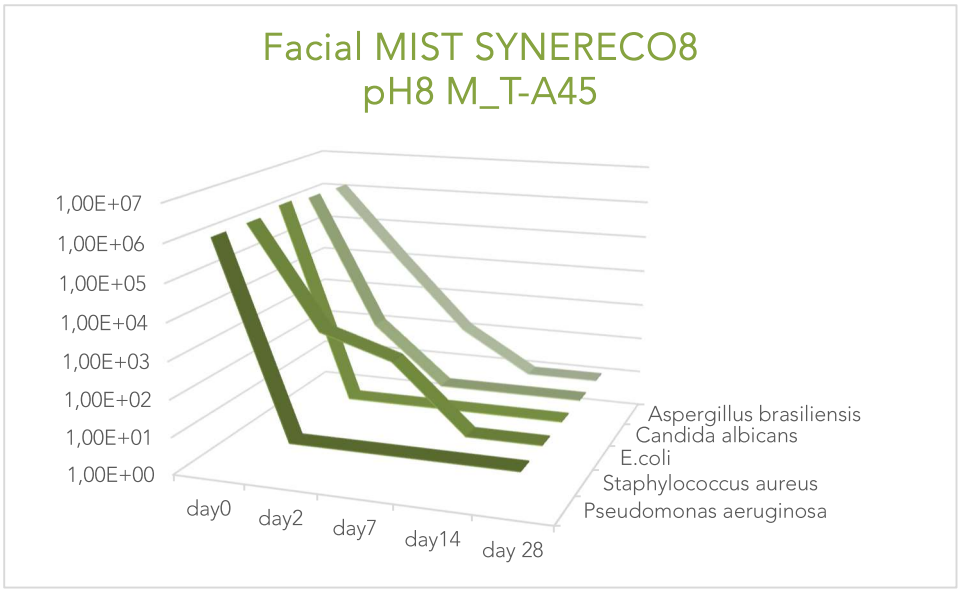
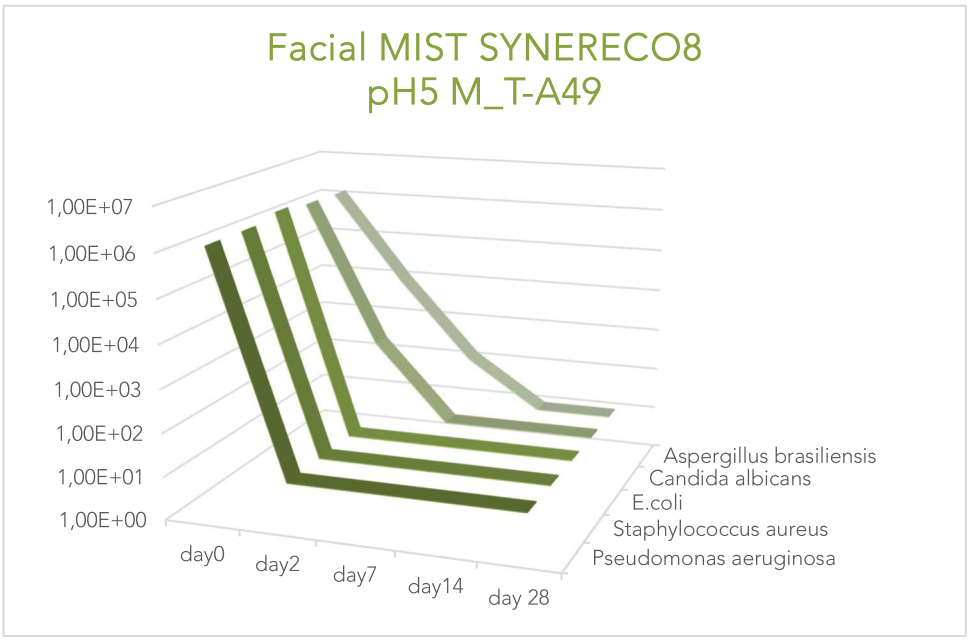
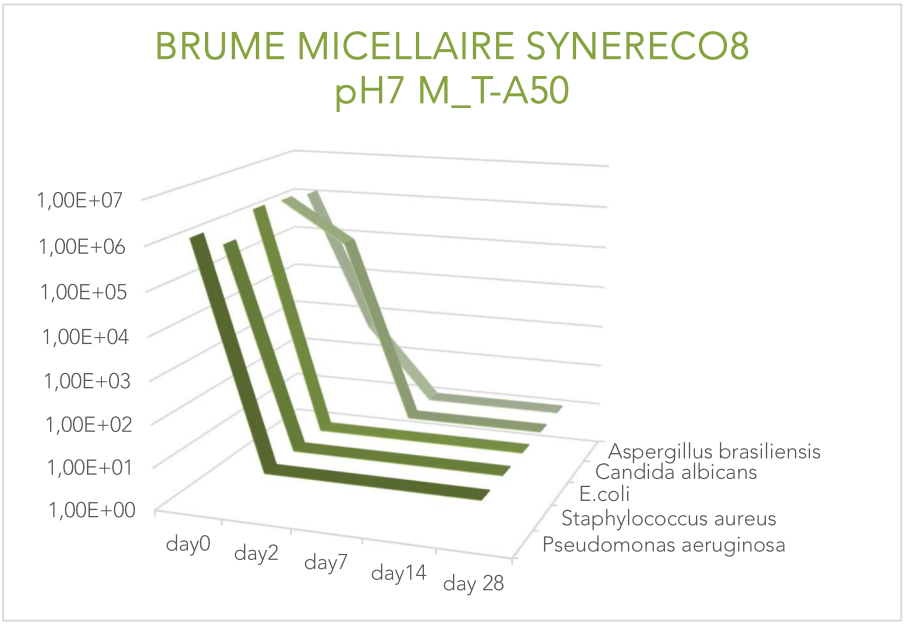
Antimicrobial performance – Aqueous Systems	GRAM +	GRAM -	Yeast	Mould
	✔✔	✔✔	✔✔	✔✔

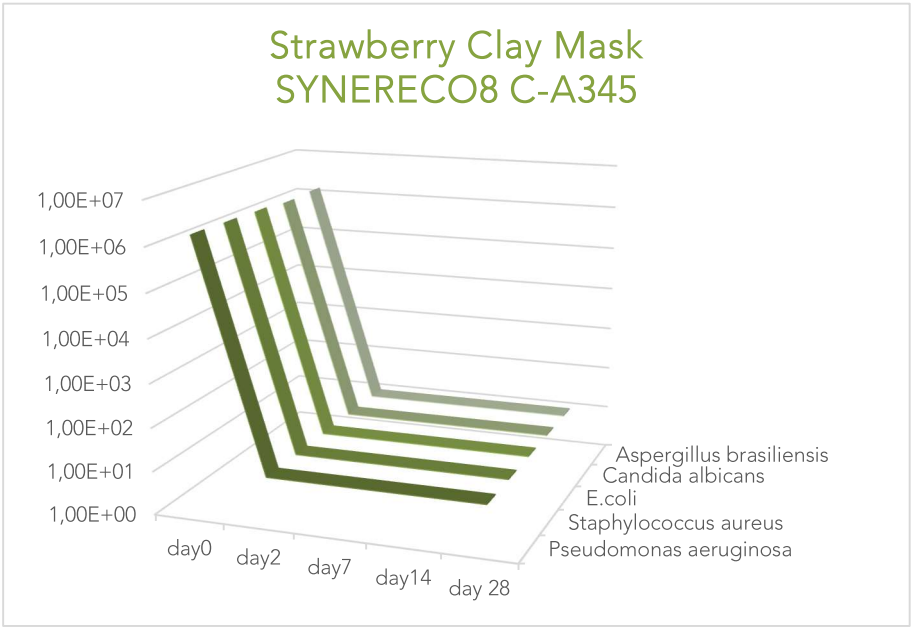
Very good ✔✔, good ✔, Insuficient –

Results:






BRUME MICELLAIRE SYNERECO8
pH7 M_T-A50
1,00E+07
1,00E+06
1,00E+05
1,00E+04
1,00E+03
1,00E+02
1,00E+01
1,00E+00
day0
day2
day7
day14
day 28
Aspergillus brasiliensis
Candida albicans
E.coli
Staphylococcus aureus
Pseudomonas aeruginosa


Strawberry Clay Mask
SYNERECO8 C-A345
1,00E+07
1,00E+06
1,00E+05
1,00E+04
1,00E+03
1,00E+02
1,00E+01
1,00E+00
day0
day2
day7
day14
day 28
Aspergillus brasiliensis
Candida albicans
E.coli
Staphylococcus aureus
Pseudomonas aeruginosa

Formula Example:

Facial Mist
M_T-A45/M_T-A49

A INGREDIENT	INCI	SUPPLIER	%
Deionized Water	Water	Jover	91,4
Vercare Phyta	Sodium Phytate	Jover	0,1
Vercatech SYNERECO8	Propanediol (and) Phenetyl Alcohol (and) Phenylpropanol	Jover	5,0
Siligel™	Xanthan Gum (and) Lecithin (and) Sclerotium Gum (and) Pullulan	Lucas Meyer Cosmetics IFF	0,5
B			
Lysofix™ Liquid	Glycerin (and) Glycine Soja (Soybean) Seed Extract	Lucas Meyer Cosmetics IFF	2,0
C			
IBR-UrBioTect® 1901	Water (and) Vegetable Glycerin (and) Inula Helenium Extract	Lucas Meyer Cosmetics IFF	1,0

1. Mix phase A, add Siligel under medium stirring, until total dispersion| 2. Add phase B under medium stirring | 3. Add phase C under medium stirring | 4. Adjust to desired pH

BRUME MICELLAIRE
M_T-A50

A INGREDIENT	INCI	SUPPLIER	%
Deionized Water	Water	-	90,63
GLYCERECO	Glycerin	Jover	2,0
Vercare Phyta	Sodium Phytate	Jover	0,1
Vercarem P4C	Polyglyceryl-4 Caprate (and) Aqua	Jover	2,0
B			
Emulmetik™ 930	Lecithin	Lucas Meyer Cosmetics IFF	0,25
C			
Vercare Antiox 70	Tocopherol (and) Hlianthus Anuus (Sunflower) Seed Oil	Jover	0,02
D			
Vercatech SYNERECO8	Propanediol (and) Phenethyl Alcohol (and) Phenylpropanol	Jover	5,0

1.Heat phase A up to 75 C 2. When temperature is up to 65°C, add B in A under slow stirring. Keep under slow stirring for 20 minutes to hydrate phospholipids. 3.Add C just before emulsifying and increase stirring rate up to maximum level with a rotor stator blender for 3 minutes to form micelles. phospholipids. 4. Cool down under medium stirring 5. Add D 6. Adjust the pH if necessary pH7

Strawberry Clay Mask
C-A345

A			
INGREDIENT	INCI	SUPPLIER	%
Deionized Water	Water	-	46,30
Vercare Phyta	Sodium Phytate	Jover	0,10
GLYCERECO	Glycerin	Jover	1,50
Vercatech SYNERECO8	Propanediol (and) Phenethyl Alcohol (and) Phenylpropanol	Jover	5,00
B			
Lecigel™	Sodium Acrylates Copolymer, Lecithin	Lucas Meyer Cosmetics IFF	0,50
C			
Hydrosella™	Glycerin (and) Water (and) Erythritol (and) Hibiscus Sabdariffa Fruit Extract	Lucas Meyer Cosmetics IFF	1,00
Inst'Tight™	Water (and) Glycerin (and) Gleditsia Triacanthos Seed Extract	Lucas Meyer Cosmetics IFF	2,00
Superox-C™ AF	Glycerin (and) Water (and) Terminalia Ferdinandiana Fruit Extract	Lucas Meyer Cosmetics IFF	1,00
White Clay	Kaolin	Alban Muller	40,30
D&C Red 33 solution 0,5%	Water, CI 17200	DyStar	0,75
Parfum Strawberry 1744	Parfum (Fragrance)	Vanessence	1,50
			100,0

1. Mix phase A | 2. Add phase B to make the gel under medium stirring | 3. Add phase C one by one under medium stirring | 4. Adjust pH 7

Additional Test:

OCL-200-EIT:

The test system used in this study was a Reconstructed human Cornea-like epithelium (RhCE) named EpiOcularTM model. The assay was performed in accordance to the OECD Test guideline No. 492: Reconstructed human Cornealike Epithelium (RhCE) test method for identifying chemicals not requiring classification and labelling for eye irritation or serious eye damage. The results obtained clearly showed that the product GA-A98 was non-irritant. The formulae of GA-A98 is enclosed as follows:

Gel GA-A98
Vercatech SYNERECO8

A			
INGREDIENT	**INCI**	**SUPPLIER**	**%**
Deionized Water	Water	-	93,0
Vercatech SYNERECO8	Propanediol (and) Phenethyl Alcohol (and) Phenylpropanol	Jover	5,0
CLEAROSA	Hydroxypropylmethyl Cellulose	Jover	2,0

1. Mix phase A add Clearosa under medium stirring | 2. Adjust pH 7

Shelf life:

2 years as long as it is kept in closed original containers at recommended temperatures.

Storage:

Keep packaging unopened and undamaged. Store at room temperature in a clean and aerated place.

Packaging:

25L, 1.000 L. (IBC optional)

Use:

Cosmetic ingredient.

SERVICES:

R&D Application Lab for consulting and customer support in:

- Texture Ideas
- Preservation proposals
- Support in general

Challenge tests through an external certified laboratory.