

OLIVEM® 1000

THE FIRST EMULSIFYING INGREDIENT

Olivem® 1000 (*Cetearyl Olivatate, Sorbitan Olivatate*) is a PEG-free naturally derived self-emulsifying active ingredient designed for oil-in-water systems. Drawing from Hallstar's deep expertise in olive oil chemistry, Olivem® 1000 is derived from a complex combination of fatty acids that are chemically similar to the composition of the hydrolipidic film of the skin. Olivem® 1000 has the ability to generate liquid crystal structures, making it an ideal biomimetic ingredient in terms of composition and structure for use in a very wide range of applications.

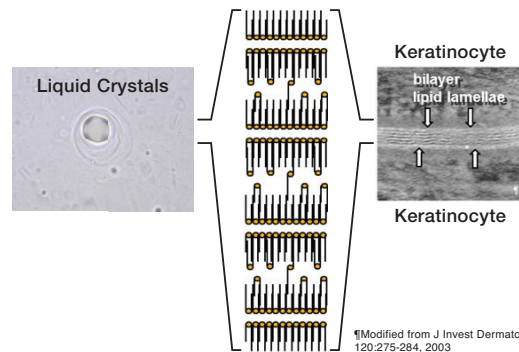


A BIOMIMETIC INGREDIENT

Olivem® 1000 is a biomimetic ingredient designed to mimic the physiological processes and chemical composition of human skin for complete skin affinity and maximum performance.

	Coconut oil	Olive oil	Healthy Skin Sebum
Unsaponifiables	max 0.60	1.0-1.5	5.0
Fatty acids (FA)	—	—	—
Palmitic	8.0-10	7.5-20	25-29
Stearic	1.5-5.0	0.5-5.0	20-28
Oleic*	6.0-9.0	55-83	30-35
Linoleic*	1.0-2.2	3.5-13.5	3.0-3.5
Linolenic*	max 0.3	max 0.8	max 1.2
Lauric	42-52	—	—
Myristic	16-19	<0.1	—
Capric	6.0-8.0	—	—
Caprylic	5.0-10	—	—
Capronic	0.5-10	—	—

* Chemically analogous to skin's surface liquid composition



Liquid crystal structures mimic the skin lamella bilayer lipids

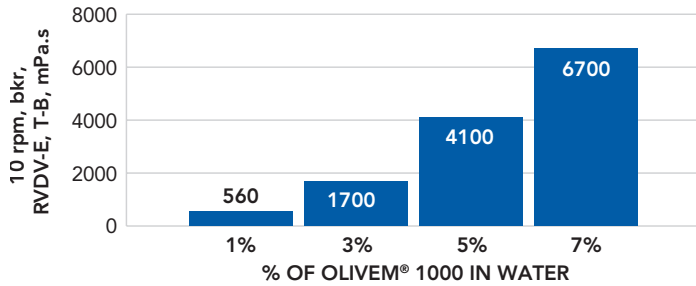


LET'S WORK WONDERS®

EASY-TO-USE FORMULATION BASE

Recommended dosage levels: 0.5-5%

Water gels



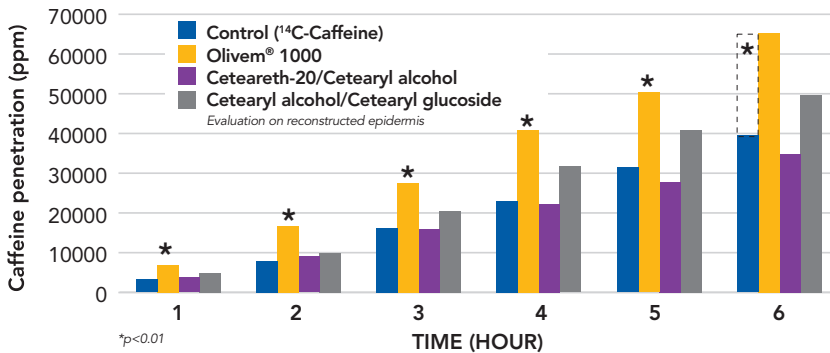
Oil-in-water emulsions

3-5% as sole emulsifier

5% Olivem® 1000 emulsifies up to a 20% oil concentration of a wide range of emollients, like natural oils, esters, waxes or silicones

CLINICALLY-PROVEN DELIVERY OF ACTIVE INGREDIENTS

Study of caffeine penetration using 5% emulsifier in water

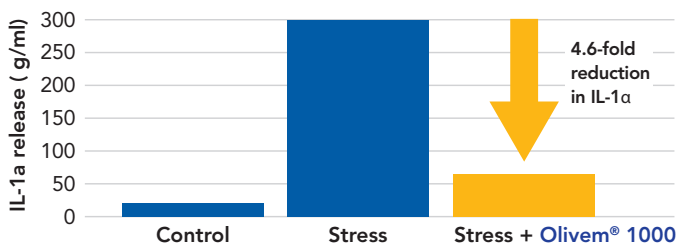


Acts as a carrier of caffeine into the epidermis and promotes the delivery of water-soluble active ingredients

PROTECTIVE EFFECT

5% Olivem® 1000 in water demonstrates a good soothing, reparatory and regenerating activity on keratinocytes.

Cell damage - IL-1α



SENSORIAL VERSATILITY

Olivem® 1000 into Water Phase	Olivem® 1000 into Oil Phase
Light sensation	Nutritive
Moderate soapy effect	Reduced soapy effect
Less glossy	More glossy
Fast absorbed	Longer play time