

# 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.

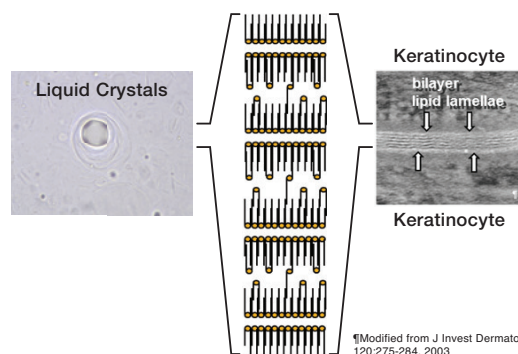


### A BIOMIMETIC INGREDIENT

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

\* Chemically analogous to skin's surface liquid composition



Liquid crystal structures mimic the skin lamella bilayer lipids

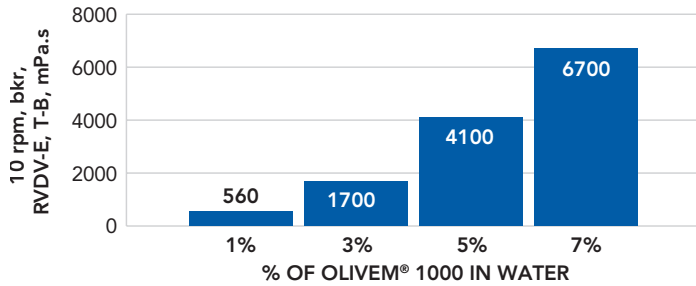


**LET'S WORK WONDERS®**

## EASY-TO-USE FORMULATION BASE

Recommended dosage levels: 0.5-5%

### Water gels



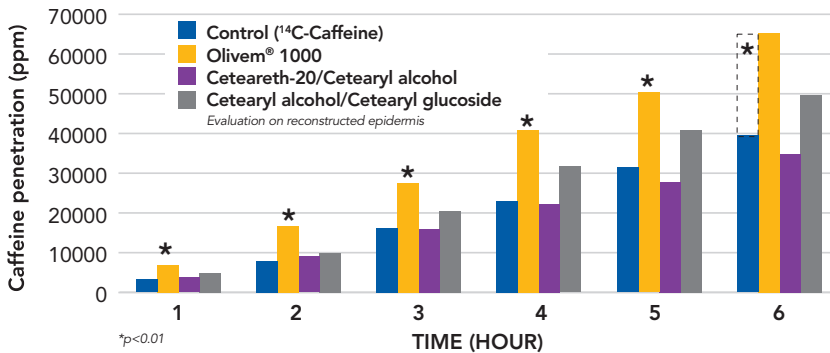
### Oil-in-water emulsions

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

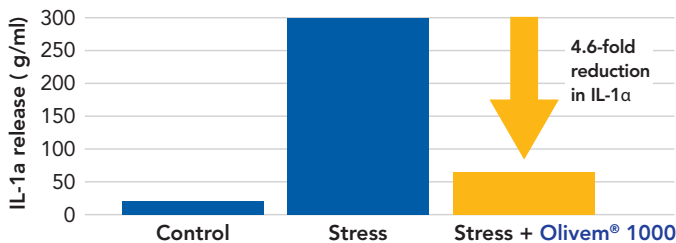


Acts as a carrier of caffeine into the epidermis and promotes the delivery of water-soluble active ingredients

## 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