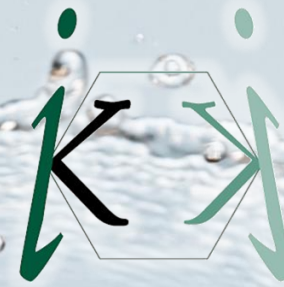


A close-up photograph of a woman's face, smiling with her eyes closed, as water splashes over her. The background is a light, bright blue. The overall mood is fresh and refreshing.

# OLIVOIL

## PCA



*Kalichem*  
a lamberti company

# OLIVOIL PCA: TECHNOLOGY

## MARKET POSITIONING

**Vegetable derived hydrosoluble emollient for skin care & toiletries**

Sensorial enhancer

Moisturizing, emollient and tensor action in leave on products

Co-emulsifier to use in cold process for lotions and creams development

Foam booster, emollient and gentle surfactant in rinse off systems

«Green Silicon effect» technology

100% Palm free composition

China compliant version available

OLIVOIL PCA FOKSNaB



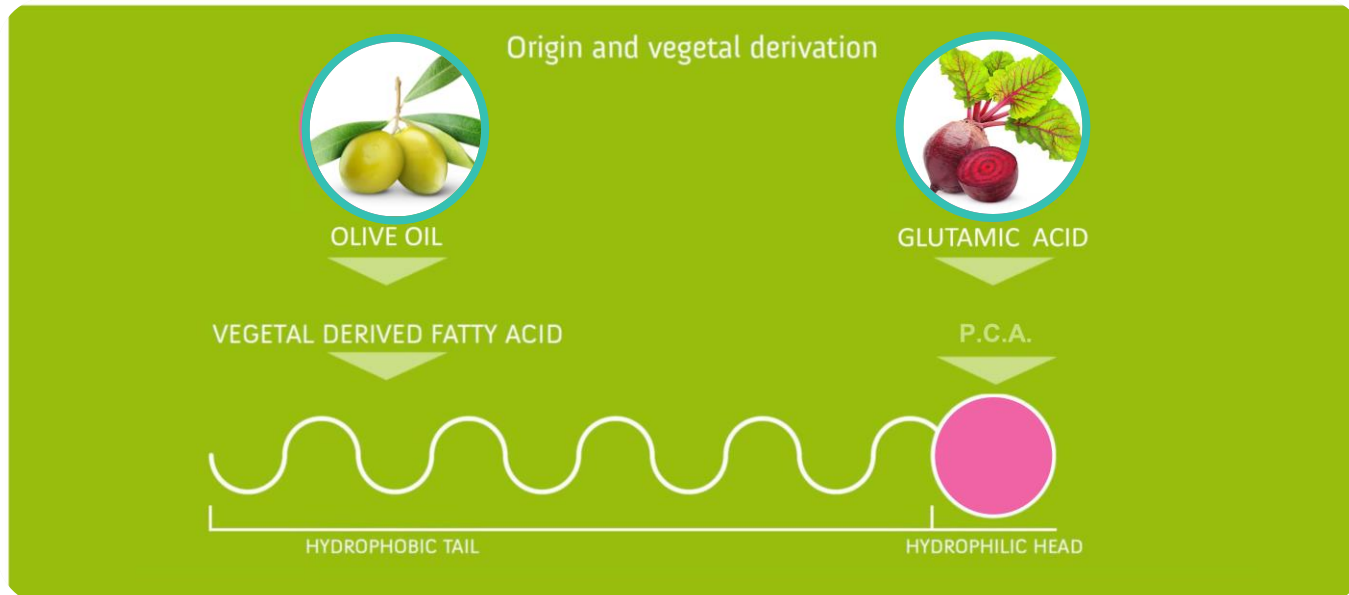
COSMOS  
APPROVED



RAW MATERIAL APPROVED BY ECOCERT GREENLIFE,  
CONFORM TO THE COSMOS STANDARD

# OLIVOIL PCA: TECHNOLOGY

## TECHNOLOGY OVERVIEW



Lipo-aminoacid containing  
**condensed olive oil fatty acids**  
and  
**PCA,**  
forming an anionic amphiphilic  
unit able to form a skin  
moisturizing and emollient  
macromolecule

HYDROPHOBIC TAIL

HYDROPHILIC HEAD

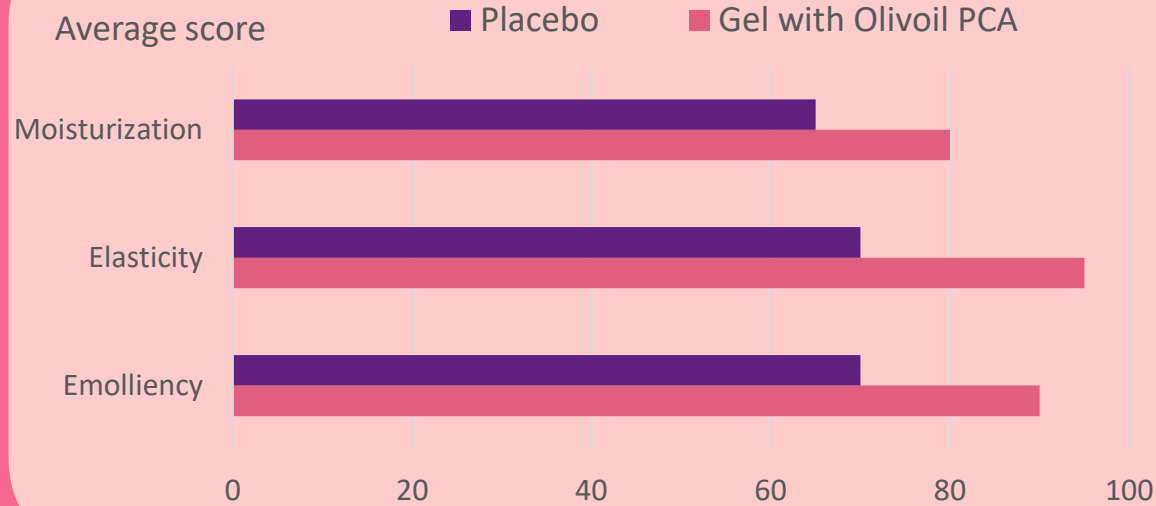
**Potassium Olivoyl PCA**





# IN VIVO TESTS

## SUBJECTIVE EVALUATION



## OLIVOIL PCA vs PLACEBO

Olivoil PCA \shows higher score of perceived efficacy in each of the analyzed parameters



# TECHNICAL APPLICATION: CO-EMULSIFIER

## OLIVOIL PCA AS CO-EMULSIFIER

Olivoil PCA is an amphiphilic lipoaminoacid

Its structure is assimilable to those of anionic surfactant/emulsifiers

Its amphiphilic character make it an effective co-emulsifier to use  
in cold process

Ideal for cold process fluid emulsions developed with minerals (bentonite, HAP,  
etc)\*

**\* Cold process SPF emulsion developed accordingly  
is available in the formulations sections**



# APPLICATIONS RECAP

## CONCENTRATION OF USE

Gentle surfactant:	1.0 ÷ 5.0 %
Emollient & Active:	3.0 ÷ 10.0 %
Co-emulsifier:	2.0 ÷ 5.0 %
Sensorial enhancer:	2.0 ÷ 5.0 %

## APPLICATION VERSATILITY

- Emollient, skin barrier restoring and moisturizing active ingredient for skin care and leave on products
- «Green Silicon» effect for all cosmetics textures
- Foam booster and secondary surfactant for toiletries
- Co-emulsifier ideal for cold process and traditional emulsions manufacturing

**Olivoil PCA comes as a water solution concentrated @30%**  
**Not thermosensitive, it can be heated or used in cold process**  
**Ideal pH of use: 5.5 ÷ 8.0**



# OLIVOIL PCA: SUSTAINABILITY

## SOURCING, ACKNOWLEDGED CERTIFICATIONS AND NATURALITY PARAMETERS



OLIVOIL PCA FOKSNaB



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CONFORM TO THE COSMOS STANDARD

Olivoil PCA is sourced from **Olea Europaea** and **Saccharum officinarum**, vegetable species with recognized sustainability

100% Palm free

Cosmos Ecocert approved

Compliant to Vegan standards compliant,  
ISO16128 Natural percentage  $\geq 90\%$



## Claims

- PALM, PEG, Silicon and Sulfate free
- Moisturizing, tensor effect, elasticity enhancer, soothing, nourishing and emollient
- Cosmos approved - sustainable sourcing- high naturality values
- «Green silicon effect» technology
- Olive oil fatty acids and PCA derived

