



Firmness

SLIMMING

SMOOTH SKIN

SHAPING EFFECT



VINIFEROL®

Cosmetic active ingredient

Grapevine extract manufactured in **France**

ACTIVE MOLECULE

epsilon-Viniferin

Extracted from French vine shoots

INCI name: *Vitis vinifera* (grape) vine extract

MULTIPLE POSSIBILITES OF STANDARDIZATION

- natural butylene glycol or
 - propanediol or
 - glycerin or
- inulin (powder form)



Tested ingredient: Natural VINIFEROL® (6% of *epsilon*-Viniferin)



FIRMNESS

Smooth skin

Clinical study



Twice a day



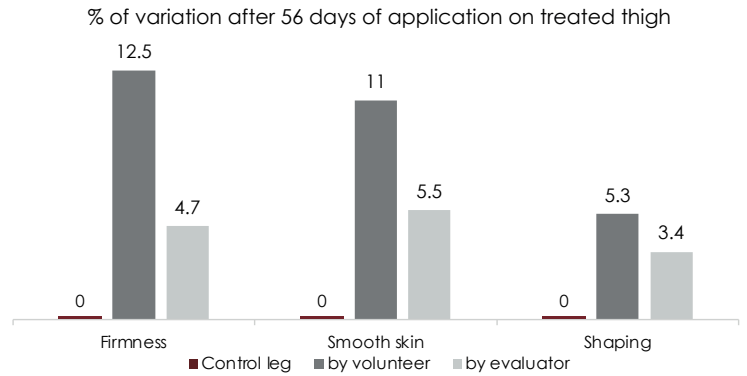
26-59 years



22 participants



2 months



Tested dose: 0.5% of VINIFEROL®

VINIFEROL® exhibits **firming, smoothing and shaping** effects highlighted by clinical scoring

Slimming via Phosphodiesterase inhibition & SIRT1 activation

In vitro

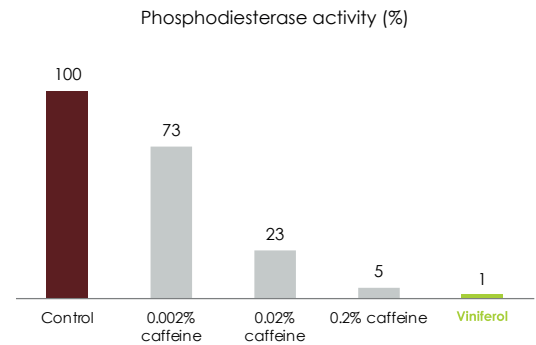
PDE4 inhibition: increases lipolysis

PDE IC₅₀ of *epsilon*-Viniferin and caffeine

Molecules	PDE IC ₅₀ in µM
<i>Epsilon</i> -Viniferin	4.6
Caffeine	1130

epsilon-Viniferin, the active molecule of VINIFEROL®, has an IC₅₀ on PDE4 activity **245 times lower** than caffeine

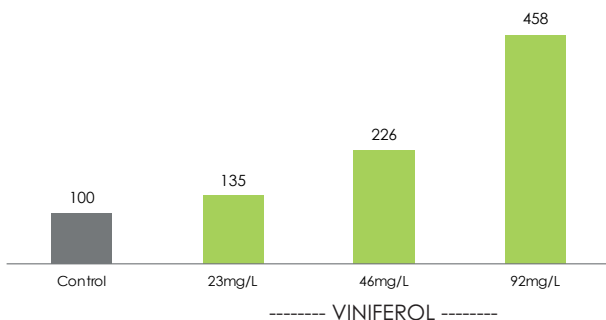
IC₅₀: Concentration to inhibit 50% of the activity



VINIFEROL® is **more active** than caffeine on PDE4 inhibition

Tested dose: 0.01% of VINIFEROL®

SIRT1 enzymatic activity of VINIFEROL® (%)



The results after 20min of incubation shows that VINIFEROL® is a **potent SIRT1 activator**

In vitro

SIRT1 activation: decreases adipogenesis

***COSMOS approved ingredients:** Natural VINIFEROL®, Natural VINIFEROL® 1% Sol., Natural de-colored VINIFEROL® 0.5% Sol. (Glycerin)

121, Avenue du Danemark 82 000 MONTAUBAN - FRANCE
www.actichem.fr contact@actichem.fr +33.5.63.23.03.06

The information in this brochure is based on our present-day knowledge and is believed to be accurate. The information is intended for reference purposes and general guidance only. Actichem gives no warranty regarding the suitability of the described products for any specific use and assumes no liability in connection with any use made of this information.