Healthy aging

- SKIN BEAUTY
- WEIGHT MANAGEMENT
- MUSCLE METABOLISM
- JOINT HEALTH
- HEALTHY AGING

VINEATROL®

Dietary supplement ingredient

Grapevine extract manufactured in **France**

ACTIVE MOLECULES

Resveratrol, *epsilon*-Viniferin and its derivatives
Extracted from French vine shoots
Ingredient: *Vitis vinifera* (grape) vine extract

MULTIPLE POSSIBILITES OF STANDARDIZATION

- maltodextrin (powder form) or
- glycerin

UPCYCLED PART OF VINE · SUSTAINABLE DEVELOPMENT · PLANT-BASED INGREDIENTS · MADE IN FRANCE · 100% NATURAL ORIGIN

ACTICHEM
NATURAL GRAPEVINE RESVERATROL

HEALTH & BEAUTY CLINICAL/ IN VITRO STUDY

Clinical study/ In vitro **Study in France**

10 participants (23-35 years)

1 intake of 1g of grapevine extract

(equivalent to 50mg/day of VINEATROL® 20 during one month)

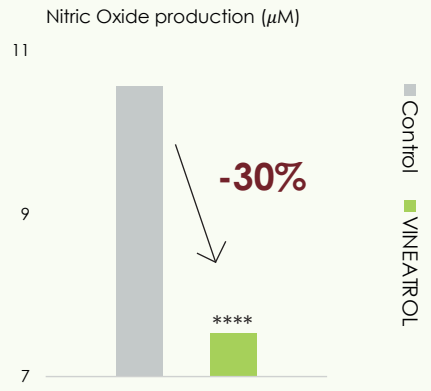
Human serum enriched in metabolites of Resveratrol oligomers

Test on Human primary cells

- **Joint health on chondrocytes**
- **Muscle metabolism on myocytes**
- **Skin beauty on fibroblasts**
- **Weight management on adipocytes**

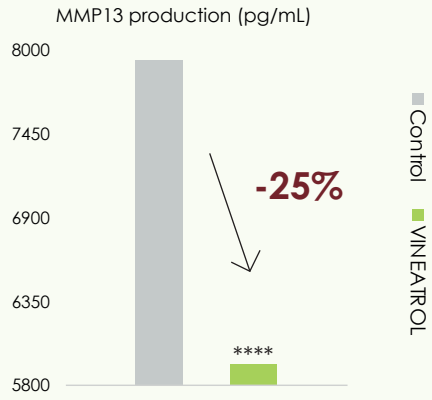
JOINT HEALTH

Inflammation



VINEATROL® induces an **anti-inflammatory effect**

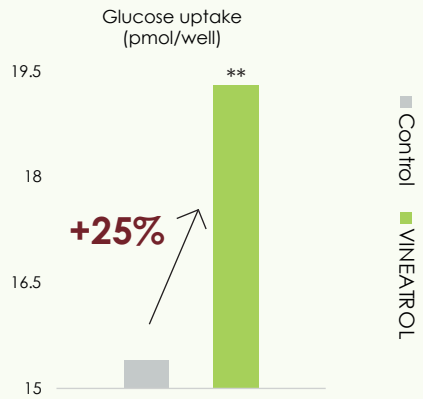
Catabolic actor



VINEATROL® **reduces** the production of catabolic actor: MMP13

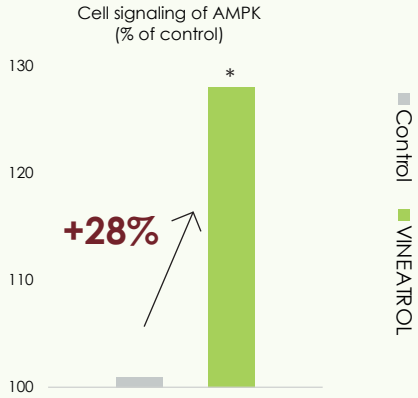
MUSCLE METABOLISM

Glucose uptake in response to insulin



VINEATROL® **improves glucose uptake** in response to insulin

AMPK activation in response to insulin



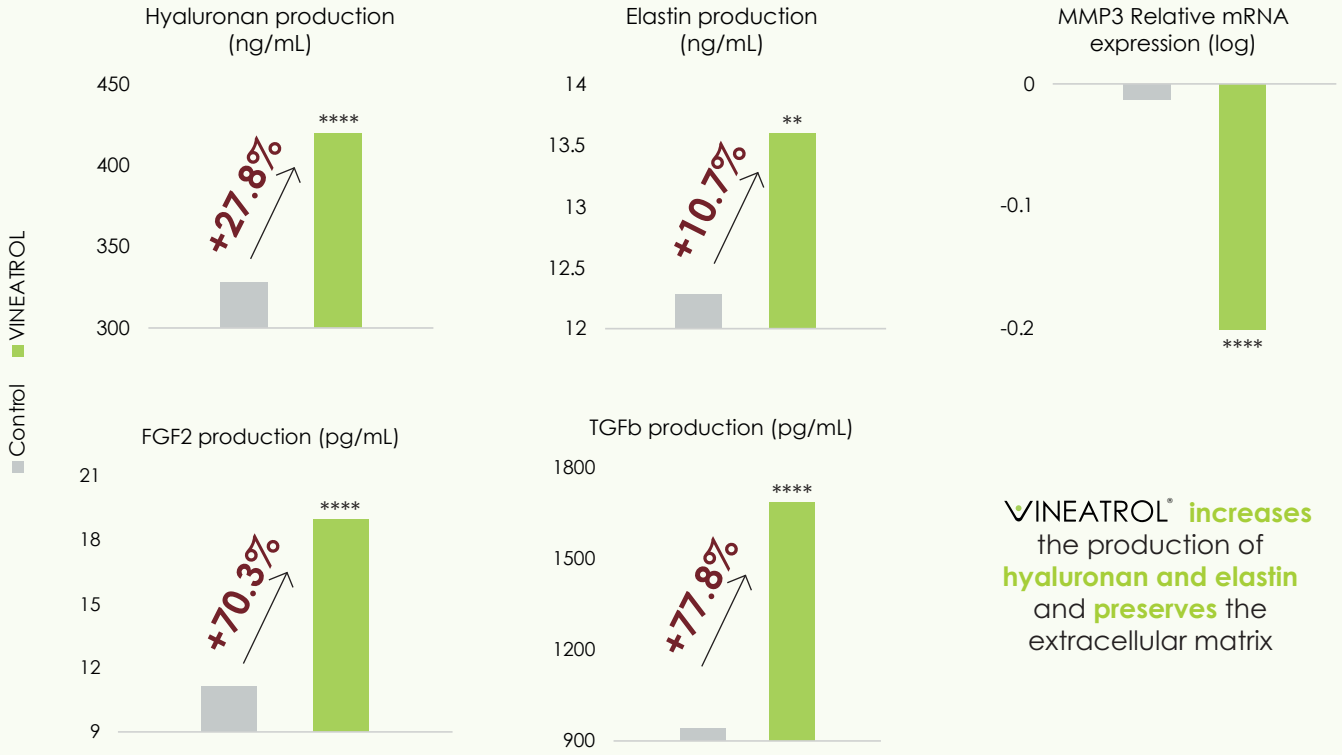
VINEATROL® **induces phosphorylation activation of AMPK** in response to insulin

VINEATROL® **potentiates the effect of insulin**

*:p<0.05 **:p<0.01 ***:p<0.001 ****:p<0.0001

SKIN BEAUTY

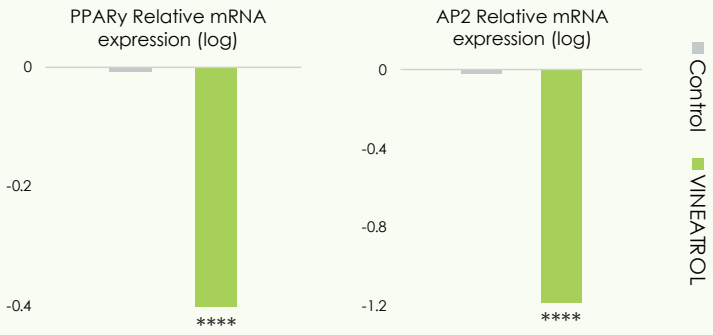
Hyaluronic acid, elastin & extracellular matrix



VINEATROL® **increases** the production of **hyaluronan and elastin** and **preserves** the extracellular matrix

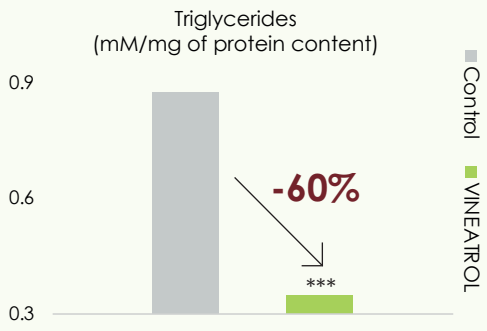
WEIGHT MANAGEMENT

Adipogenesis



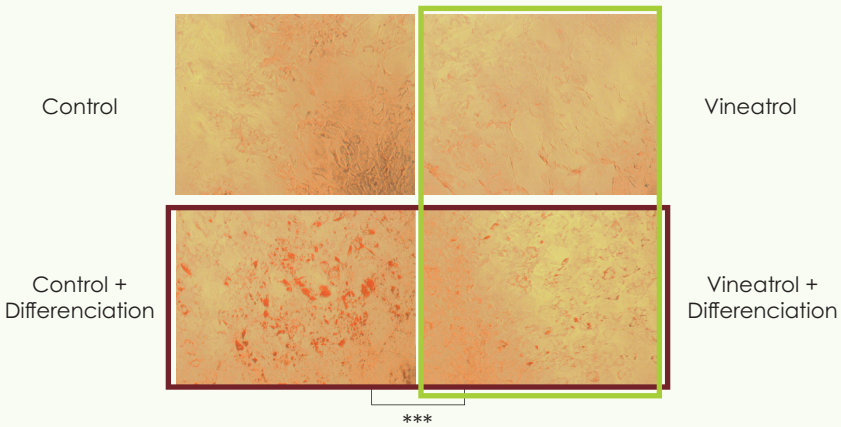
VINEATROL® **regulates adipogenesis**

Triglyceride storage



VINEATROL® **limits fat accumulation**

Oil red staining



VINEATROL® significantly limits **lipid accumulation**

*:p<0.05 **:p<0.01 ***:p<0.001 ****:p<0.0001

MORE STUDIES

SIRT1 Activation

Clinical study

Once a day

40-60 years

24 participants

4 weeks

Japan

200mg of VINEATROL®

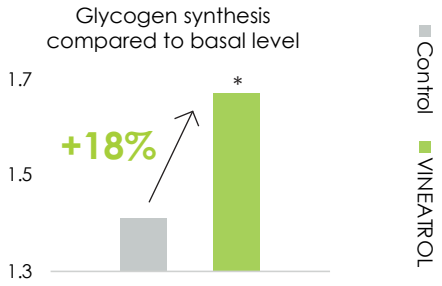
80% showed an improvement

Average SIRT1 level **+18%**

Rate of increase of SIRT1 up to **62%**

Insulin sensitivity

In vitro (human muscle cells)



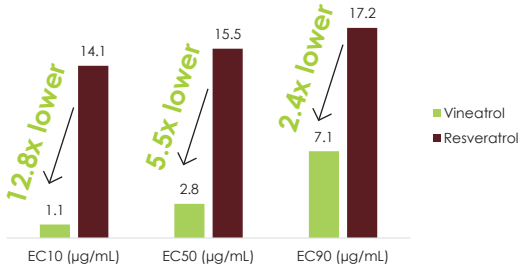
VINEATROL® significantly increases the capacity of insulin to stimulate **glycogen synthesis**

Beneficial action of VINEATROL® on insulin sensitivity during an in-vitro test on muscle cells

Antioxidant activity

In vitro (HepG2 cells)

Effective concentration of VINEATROL and Resveratrol on antioxidant activity



VINEATROL® has a **stronger intracellular antioxidant** effect at lower doses than Resveratrol

EC10: The lowest concentration to be effective
EC50: Concentration to obtain 50% of maximum effect
EC90: Concentration to obtain 90% of maximal effective concentration

PRODUCT LIST

Nutraceutical ingredient
Source: *Vitis Vinifera* - **Vine shoot/ vine stem**

- VINEATROL® **20**
  Composition: *Vitis Vinifera* (grape) vine extract / Maltodextrin
  Total Resveratrol derivatives > **20%**
  Resveratrol > **5%**
  epsilon-Viniferin > **5%**

- VINEATROL® **WD**
  Composition: Glycerin / Water / *Vitis Vinifera* (grape) vine extract
  Total Resveratrol derivatives > **1%**
  Resveratrol > **0.15%**
  epsilon-Viniferin > **0.15%**

PACKING LIST

POWDER FORM
Packaging: 1,5 & 10kg
MOQ: 1kg

LIQUID FORM
Packaging: 1, 5, 10 & 25kg
MOQ: 1kg

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