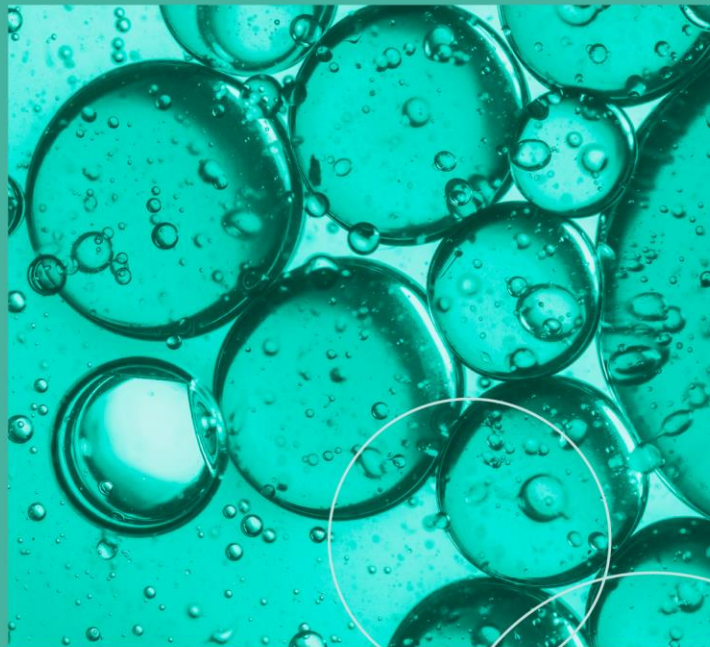


REVITALIN®

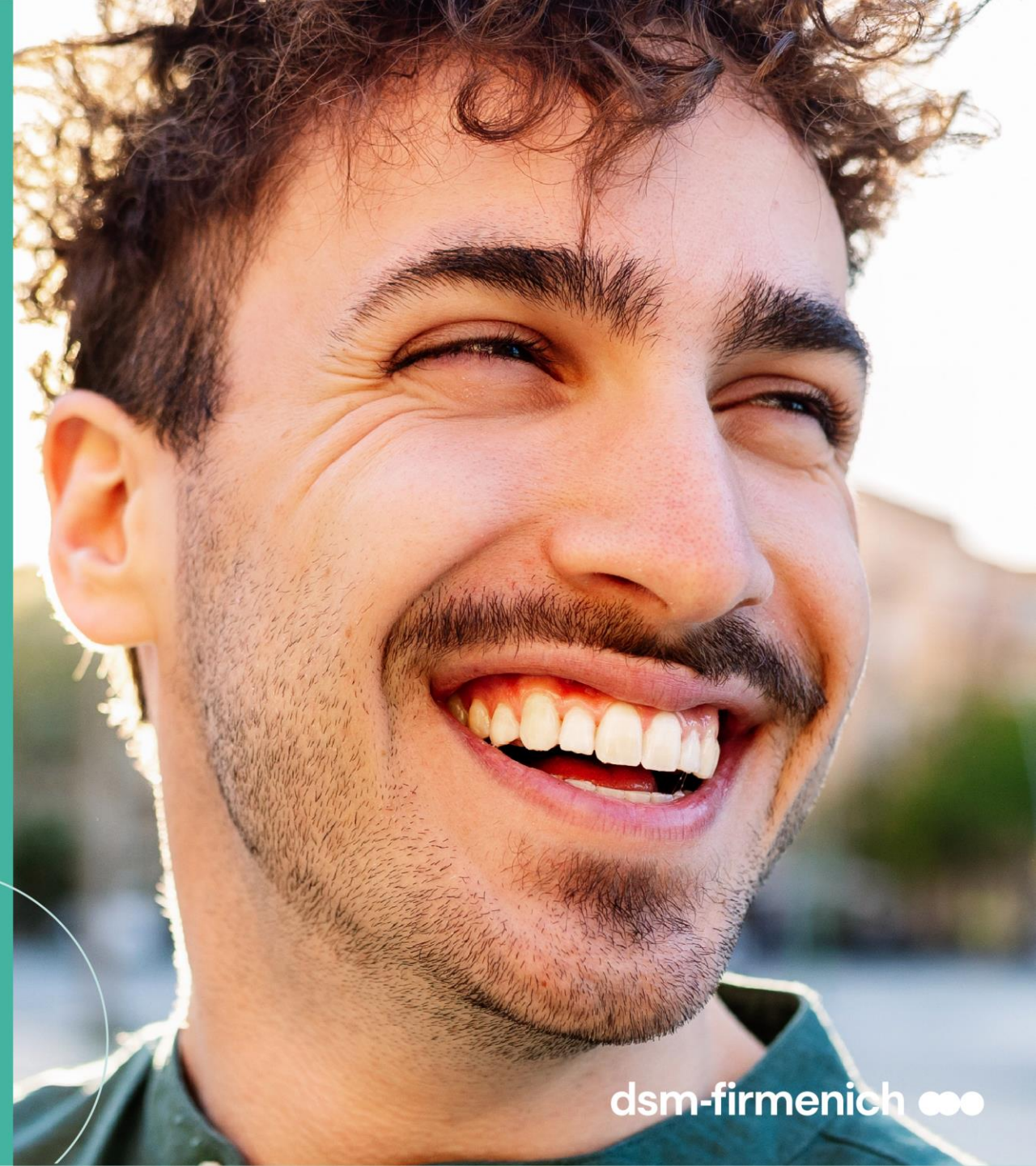
CB

*Vitality booster for
an healthy skin*



April 2025

Biotech | Nature, enhanced by science



dsm-firmenich 

Trend

'Skin Energy & Clean Beauty'

'Skin Energy' is a Big Skin Care Trend.¹

Consumers show an **increasing interest** in naturally functional beauty products to help them **feel energized** and **healthy**.

Clean Beauty

Consumers tend to **avoid controversial ingredients** and showing more interest in '**cleaner**', **energy-boosting products** to adopt healthier and 'cleaner' lifestyles.



REVITALIN® CB

ID Card

INCI NAME: Glycoproteins, Glutamic acid, Valine, Threonine, Aqua, 1,2-Hexanediol, Caprylyl Glycol

TECHNOLOGY: Postbiotic mixture of glycoproteins obtained by fermentation of baker’s yeast
Blended with a sophisticated mixture of 3 skin respiration facilitators
98.9% of natural origin (ISO 16128)

TECHNICAL: Form: Clear yellowish solution pH of use: 3.0 – 7.5 Solubility: Water soluble
Use level: 1–5% Preservative: Free

- BENEFITS:**
- ‘Clean Vitality Booster’ to sustain a healthy-looking skin
 - Contains a combination of postbiotic glycoproteins and three amino acids
 - Unlocks the Power of Vital Mitochondria
 - For controlling circadian rhythm
 - Helps to accelerate skin renewal by up to 4 days**
 - Maintains sufficient availability of ATP all day long*
 - Vitality boost for less energetic (tired) skin cells*
 - Energy kick for stressed skin cells*
 - Restores mitochondrial vitality after UV stress*

**REGISTRATION
CERTIFICATION**



Unlocks the power of 'vital mitochondria

REVITALIN® CB delivers a lot of ATP by boosting the two fundamental mitochondrial pathways*

- 1 Anaerobic glycolysis, measured by ECAR (Extracellular Acidification Rate) ³
- 2 Aerobic respiration, measured by OCR (Oxygen Consumption Rate) ³
- 3 ATP (Adenosine triphosphate), measured by Mitochondrial Toxglo™ kit⁴

REVITALIN® CB restores mitochondrial vitality after UV stress*

- 4 Stimulates mitochondria-related genes linked to cell energy, regeneration and detoxification*

REVITALIN® CB sustains a healthy- looking skin**

- 5 Helps to accelerate cell renewal activity by up to 4 days**.

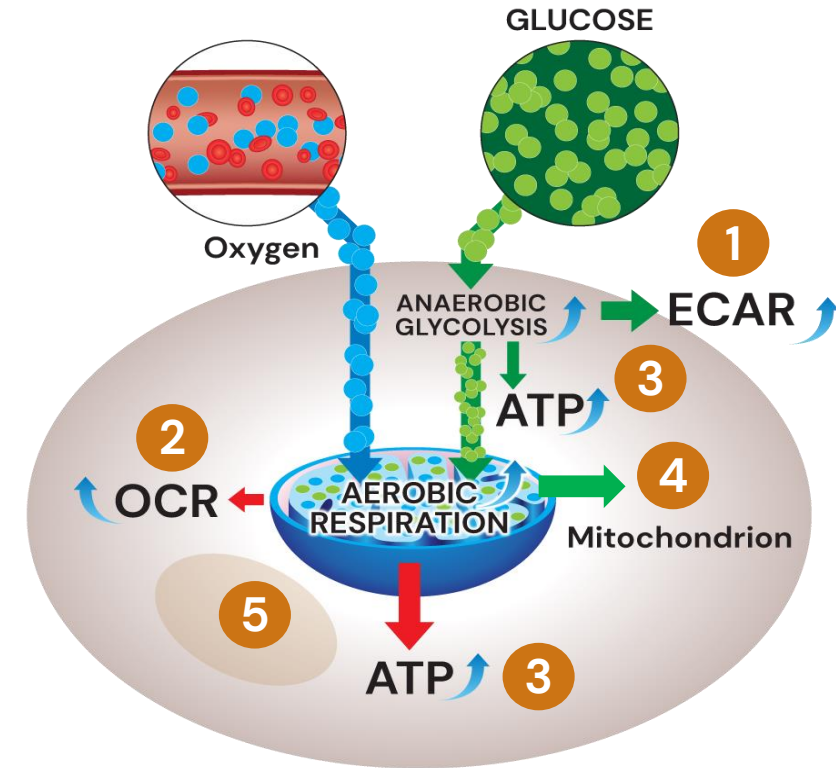
* In vitro ** In vivo

1 R. Schütz et al. / Journal of Photochemistry & Photobiology, B: Biology 159 (2016) 142–148

2 R. Schütz et al. / Monitoring the energy status of primary human keratinocytes and the effect of REVITALIN® CB on cellular homeostasis, IFSCC 2014

3 Extracellular Flux Analyzer, produced by Seahorse Bioscience USA

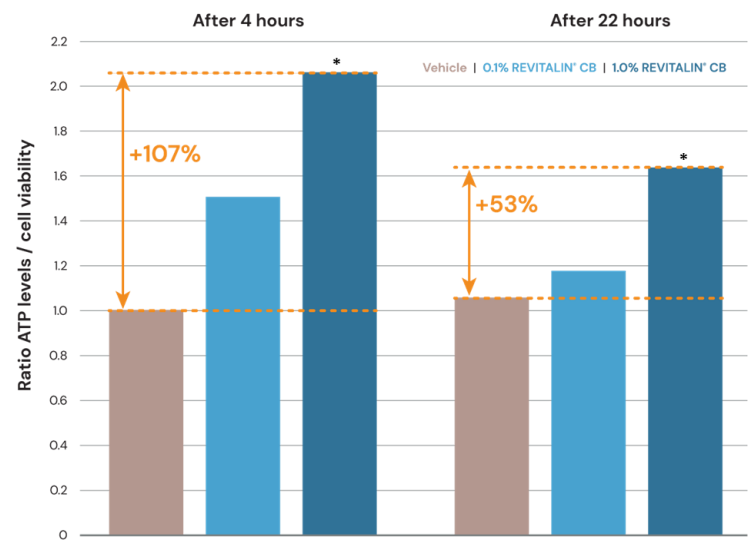
4 Mitochondrial Toxglo™ kit, produced by Promega USA



REVITALIN® CB

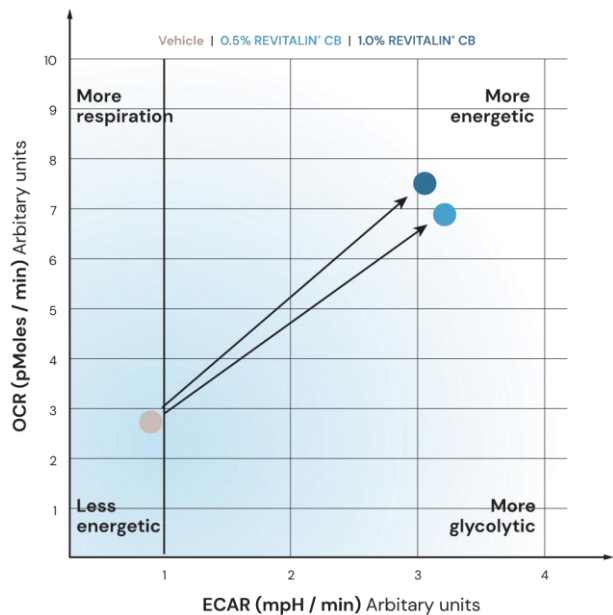
In vitro proof

Maintains sufficient availability of ATP all day long*



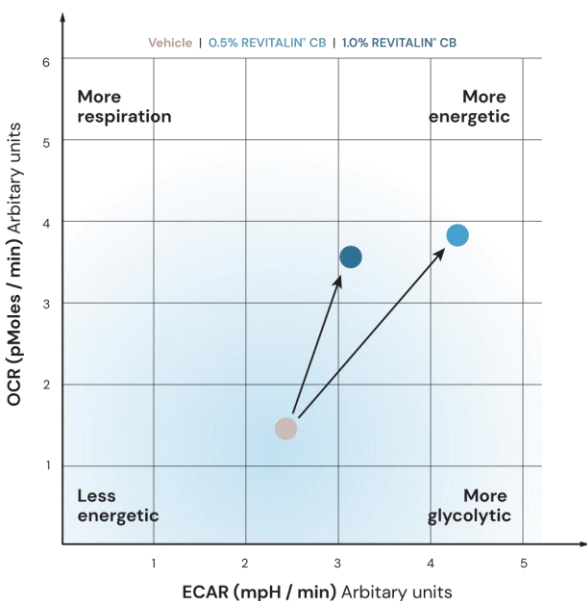
ATP levels vs cell viability in keratinocytes after 4 and 22 hours of REVITALIN® CB treatment, respectively. The data are expressed as ratio of ATP production versus cell viability measured by caspase activity. *p < 0.01 (n = 3).

Vitality boost for less energetic (tired) skin cells*



Effect of REVITALIN® CB (0.5% and 1.0%) on respiration and glycolysis referring to less energetic keratinocytes compared to vehicle-treated cells after 4 hours treatment

Energy kick for stressed skin cells*



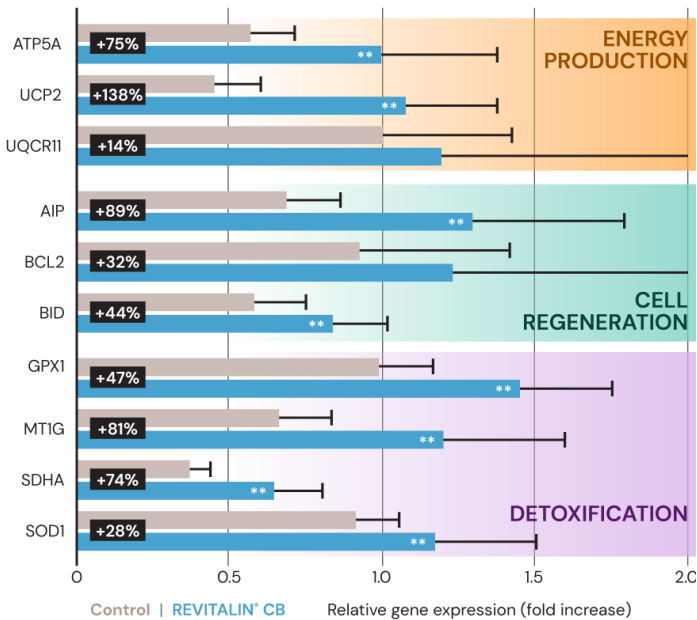
Effect of REVITALIN® CB (0.5 and 1.0%) on respiration and glycolysis referring to chemically induced, stressed keratinocytes compared to vehicle-treated cells after 4 hours treatment

REVITALIN® CB

In vitro and in vivo proofs

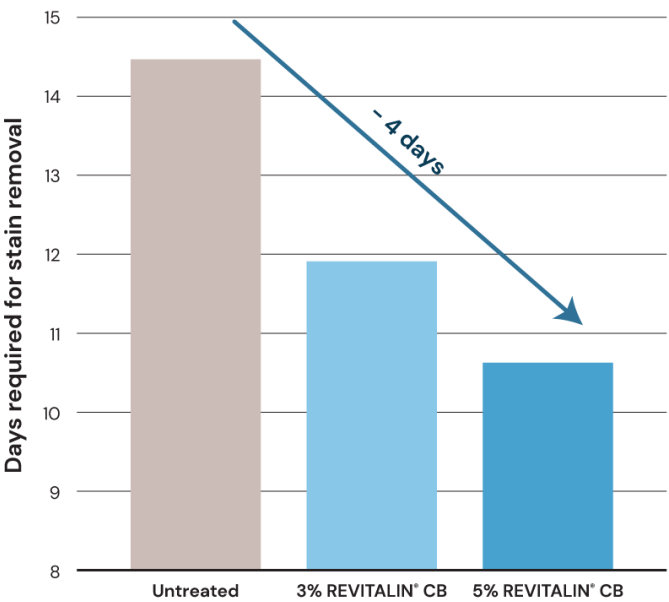
Restores mitochondrial vitality after UV stress*

Significant effects on mitochondria-related genes linked to cell energy, cell regeneration and detoxification*



Effect of 0.5% REVITALIN® CB (blue bars) on expression of mitochondria-related genes in human keratinocytes 4 h after UVB-irradiation (60 mJ/cm2) relative to the vehicle treated, UV-irradiated control (gray bars). Data are represented as fold change ± SEM from three observations (**significance level $p < 0.01$ vs. UV-irradiated vehicle control).

Helps to accelerate skin renewal by up to 4 days to sustain a healthy-looking skin**



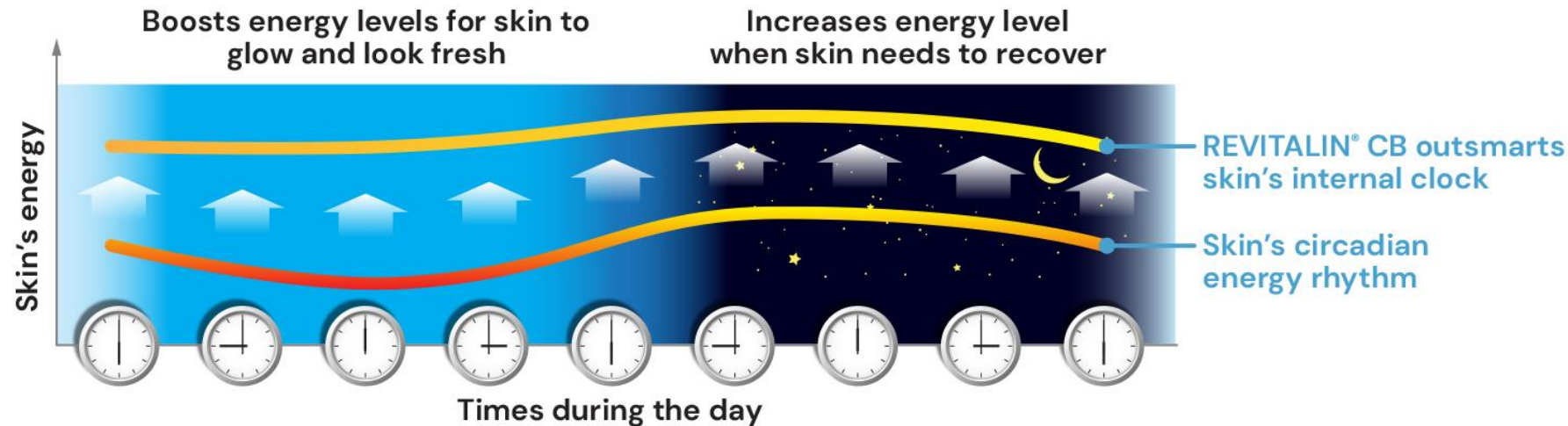
The ability of REVITALIN® CB to stimulate skin cell turnover was tested when twelve volunteers (aged 30–55 years) applied 3% and 5% REVITALIN® CB on their forearms twice a day for a period of 20 days. The time for removal of all dansyl chloride staining was determined.

Outsmarts skin's internal clock

For controlling circadian rhythms

Skin that is optimally energized throughout the cell's circadian rhythm has a consistent glow and generally fresh complexion.

REVITALIN® CB recharges skin cells with energy during the skin's nighttime and boosts daily energy levels when skin needs it most.



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