genERGY

DEMONSTRATE THE ABILITY OF YOUR COSMETIC INGREDIENT TO BOOST CELLULAR ENERGY PRODUCTION BY MITOCHONDRIA

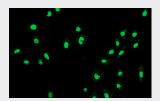


Mitochondria are organelles located in every single cell within the organism. They are key for bioenergetics and are the actual "powerhouse" of cells. To maintain skin homeostasis, mitochondria accomplish several dynamic processes such as providing ATP, the primary energy source of skin cells, and mitophagy. Mitophagy is the selective degradation of mitochondria by autophagy. It often occurs to defective mitochondria following damage or stress.

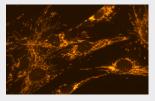
However, with age and external aggressions, they become less effective and result in excess formation of Reactive Oxygen Species (ROS). Hence, damaged mitochondria accumulating in cells impact the skin's functions, and eventually, its appearance.

genERGY proposes compelling ways of analysing mitochondrial turnover and homeostasis benefits of active ingredients.

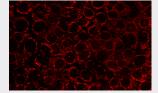
genERGY Methods



ROS immunostaining in primary cells



Immunostaining of mitophagy markers in primary cells



Immunostaining of damaged mitochondria in primary cells

- Following stress, excess ROS formation leads to an accumulation of damaged mitochondria. Cells are subject to ATP depletion and to impaired mitophagy.
- Visualize these mechanisms and validate the ability of your active ingredient to revitalize mitochondria and the cell.



Dynamic gene and miRNA interactions

 Back the scientific images with gene and miRNA modulations.

Your Benefits

Reliable: optimized process that guarantees fast and strong results

Relevant: Application of scientific techniques that respond to current needs for mitochondria analysis

Tailored: adaptable to any type of cells and any dermoscosmetic pathway



Innovation: genERGY is a panel of innovative tests assessing mitochondrial turnover and homeostasis benefits of active ingredients.

Expertise: Our scientific team mastered immunostaining and mitophagy pathway analysis... required to deliver reliable results and successfully reveal the mitochondrial protecting properties of your active ingredient.

Support: Working together, as one team, we partner with you to determine the most efficient and appropriate strategy to reveal the power of your cosmetic active ingredients.



Contact us for a free scientific diagnosis

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