MELAgen

Assess the effect of your active ingredient on melanogenesis, an essential mechanism that protect skin cells.

Melanocytes prevent the UV-dependent DNA damage in human skin by producing melanin that is synthesized and deposited in melanosomes. Melanosomes are then transferred from the melanocytes to the keratinocytes to protect them.

At the same time, uncontrolled hyper-pigmentation provokes skin disorders such as ageing, spots, and vitiligo.

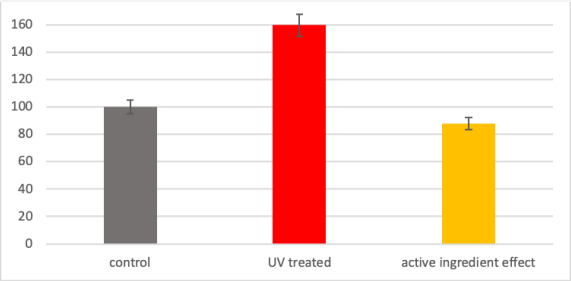
Being able to understand how melanogenesis is regulated is essential to assess for skin protection.

MELAgen will give you the keys to decrypt the precise effect of your active ingredient on melanogenesis.

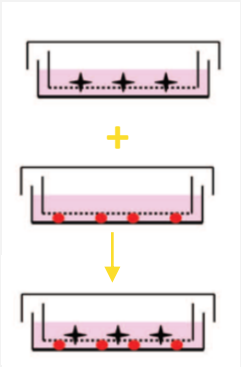
MELAgen Method

Melanin content quantification in UV-irradiated melanocyte

Co-culture of melanocytes & keratinocytes



The active ingredient regulates melanin synthesis in UV-irradiated melanocytes, helping the cells to protect themselves against UV-dependent DNA damage.



By assessing the effect of your active ingredient on the crosstalk between melanocytes and keratinocytes we can precisely determine its role in hyper or hypo-pigmentation.

- Test your active ingredient on multiple pathways involved in melanin regulation.
- Precisely understand how melanogenesis activity and melanin quantity are regulated by your active ingredient.

Your Benefits

Reliable: optimized process that guarantees fast and accurate results .

Relevant: From a wide range of techniques, we will precisely assess the effect of your active ingredient.

Affordable: Cost effective adapted only to the techniques you'll need.