How to protect skin vitality from blue light damage

NEW STUDY
TEGO® PEP UP: BLUE LIGHT STUDY

Smartphones, laptops and tablets are smart devices. But they all have a dark side. Constant exposure to screens emitting blue light can cause skin problems, including photo-aging and weakening of the skin’s surface. Recently, Evonik discovered that TEGO® PEP UP, a biomimetic tetrapeptide, can shield skin from damage from blue light as well as support regeneration after blue light irradiation. With TEGO® PEP UP, we offer our customers an ingredient that enables them to develop effective cosmetic products that can truly help against the modern aggressors of this digital age.

PROOF OF EFFICACY (IN VITRO)

EFFICACY OF TEGO® PEP UP AGAINST BLUE LIGHT DAMAGE

Cellular contraction in the extracellular matrix plays a significant role in dermal tissue. To study the impact of blue light on the contractility of cells in vitro, we used the GlaSbox® device.

Setup
Normal human fibroblasts within a collagen-equivalent dermis

Process
Irradiation with blue light before (prevention) or after (regeneration) the addition of TEGO® Pep UP

Measurements
Determination of contractile forces using a special GlaSbox® device

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* Significant compared to irradiated control

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