

# QuinCell

**INCI:** glycerin, water, *Chaenomeles japonica* cell culture extract (pending)

## Key benefits for skin:

## Prevents skin photoageing and boosts sun protection

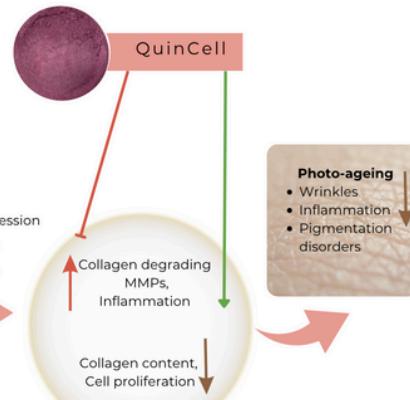
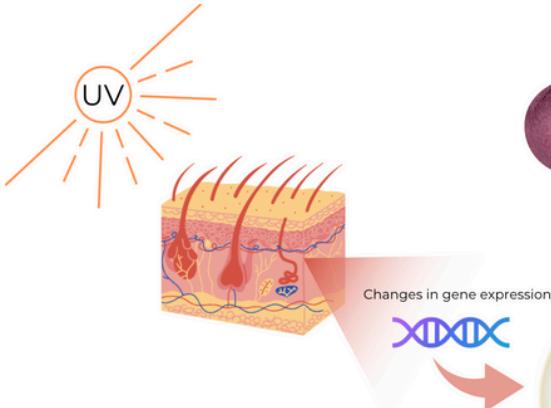
### Bioactive chemical compounds:

anthocyanins, triterpenes

**Recommended use level:** 0.5-2.5%



## Efficacy



Sustainably produced using bioreactor grown *C.japonica* stem cells



QuinCell is designed to protect the skin from the adverse effects of UVA/UVB rays by specifically targeting mechanisms associated with photoaging. Sun exposure is directly linked to the breakdown of collagen and the reduced collagen synthesis leading to extrinsic skin ageing and the formation of wrinkles. In addition to providing skin protection, QuinCell fosters skin regeneration.

### More Information:

[www.alternativeplants.eu](http://www.alternativeplants.eu)

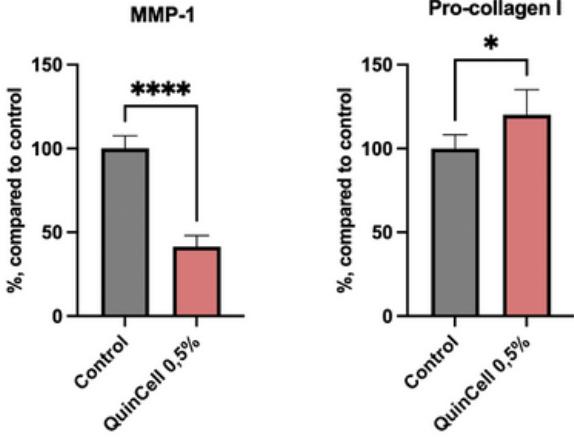


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### Contacts:

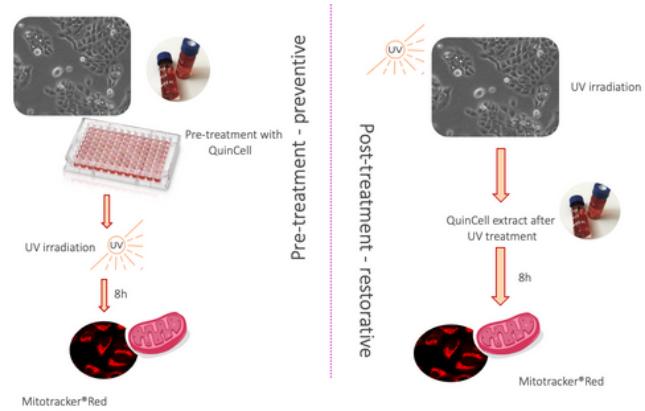
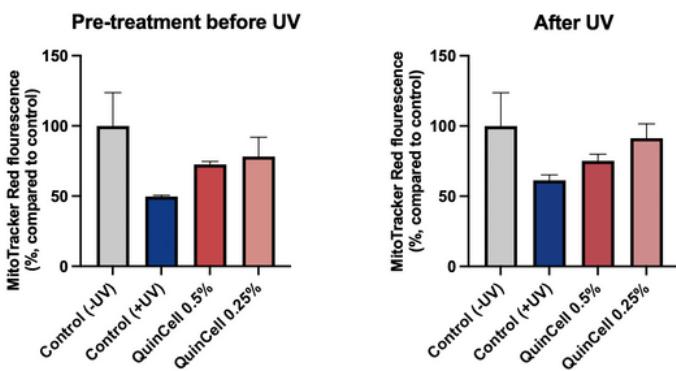
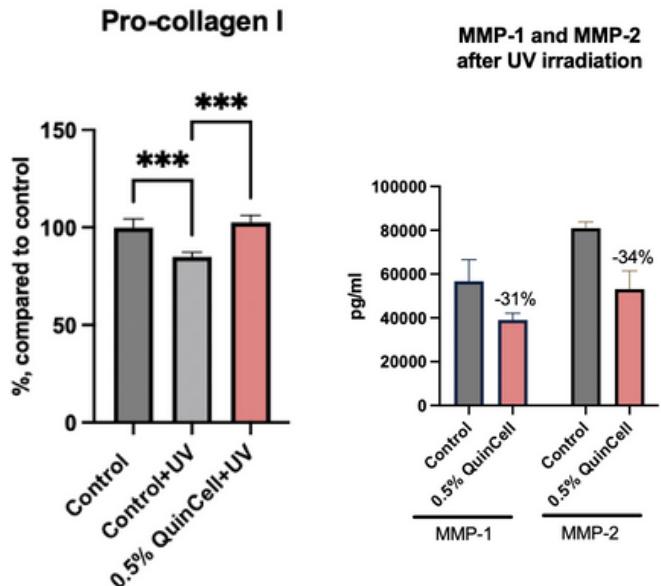
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Antioxidative activity of QuinCell on top of UV absorption provides additional skin benefits - it **helps UV irradiated skin cells to maintain collagen synthesis at the level of non-irradiated controls** (+18% increase in collagen compared to irradiated cells) and **reduces UV induced production of ECM degrading enzymes** (MMP-1 & MMP-2)

**QuinCell** reduces production of collagen degrading enzyme MMP-1 in dermal fibroblasts simultaneously boosting the expression of collagen - an effect crucial for **maintenance of healthy skin extracellular matrix**.



Helps to maintain healthy mitochondrial functions - prevents UV damage as well as helps to restore mitochondrial functions after UV-induced oxidative stress

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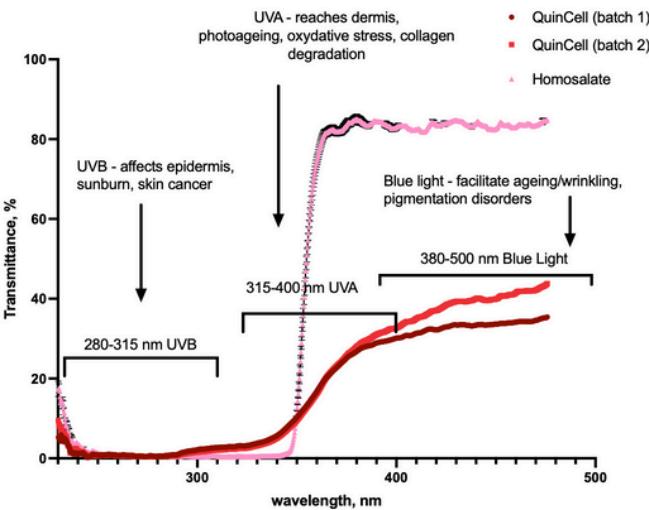


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- QuinCell blocks transmission of UVB (by 99-95%)
- QuinCell blocks transmission of UVA (by 65-96%, efficient in blocking UVA transmission at broader wavelength than homosalate)
- QuinCell blocks transmission of blue light (by 55-65%)

Anthocyanin rich **QuinCell absorbs both UVA and UVB contributing** to sun protection and increasing the efficacy of SPF filters.

## Technical specification – data sheet

<b>Product</b>	QuinCell INCI: Glycerin (and) aqua (and) <i>Chaenomeles japonica</i> callus extract
<b>Appearance</b>	Light pink to red, slightly opalescent. Formation of small amounts of precipitate might be observed and does not affect product quality.
<b>Odour</b>	Characteristic
<b>pH</b>	6.0 ± 1 at room temperature (22... 25 °C)
<b>Solubility</b>	Water soluble
<b>Density</b>	1.05 – 1.20 g/l at room temperature (22... 25 °C)
<b>Total phenolic content</b>	>350 µg/ml gallic acid equivalents (Folin-Ciocalteu method)
<b>Microbiological quality (total plate count)</b>	Aerobic mesophilic bacteria < 100 cfu/g (ISO 21149) Yeasts < 100 cfu/g (ISO 16212)
<b>Recommended concentration for use in cosmetic products</b>	0.5 – 1.5 %
<b>Shelf life and storage conditions</b>	12 months Store at room temperature, protect from light.

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