

QuinCell

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

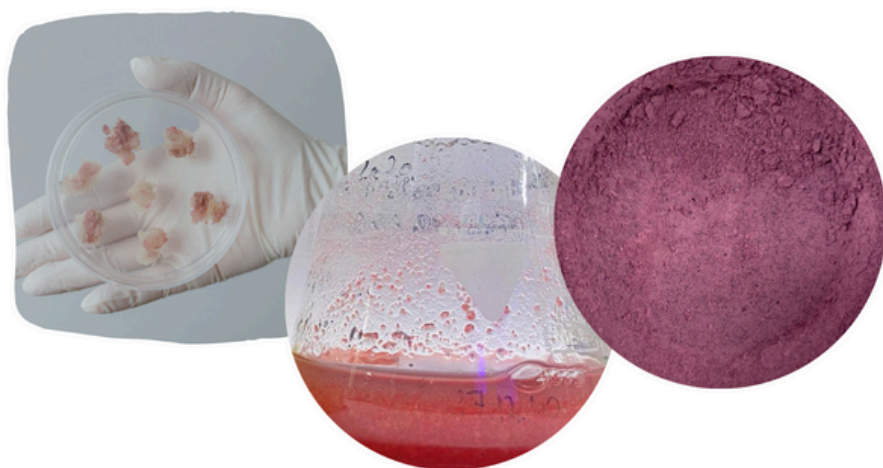
Key benefits for skin:

Prevents skin photoageing and boosts sun protection

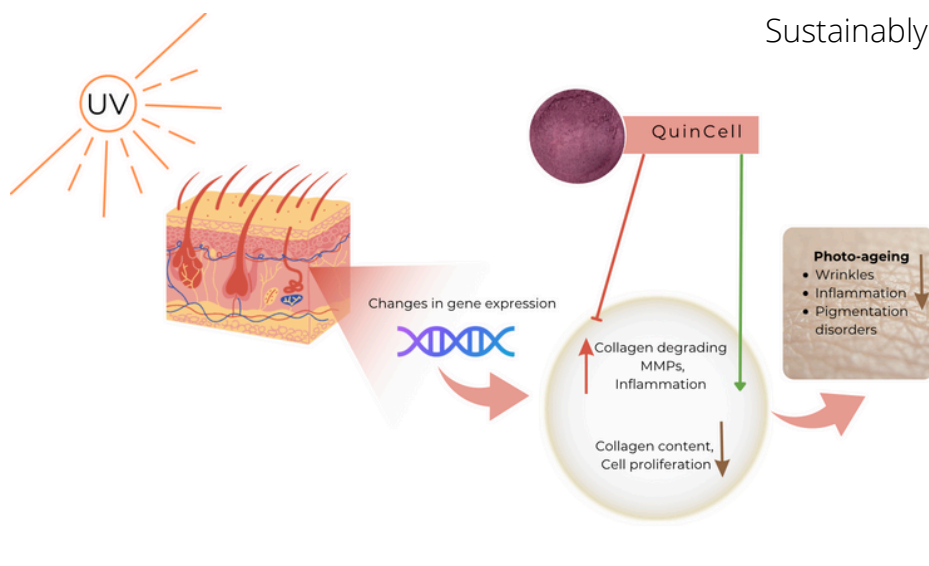
Bioactive chemical compounds:

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

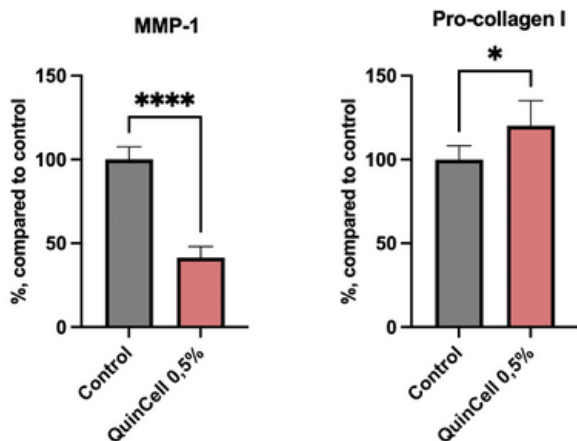


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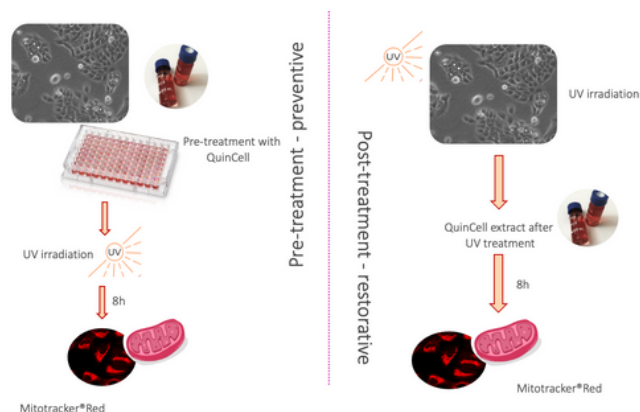
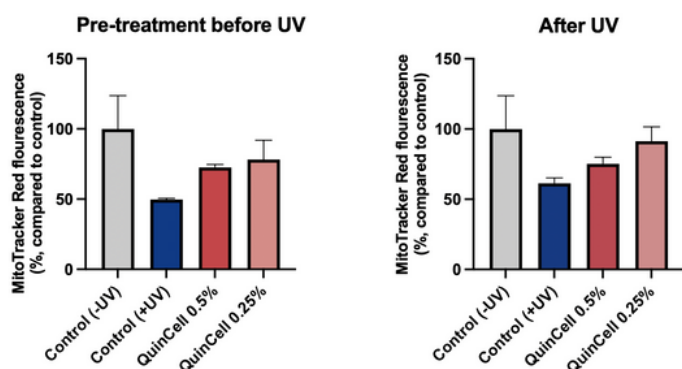
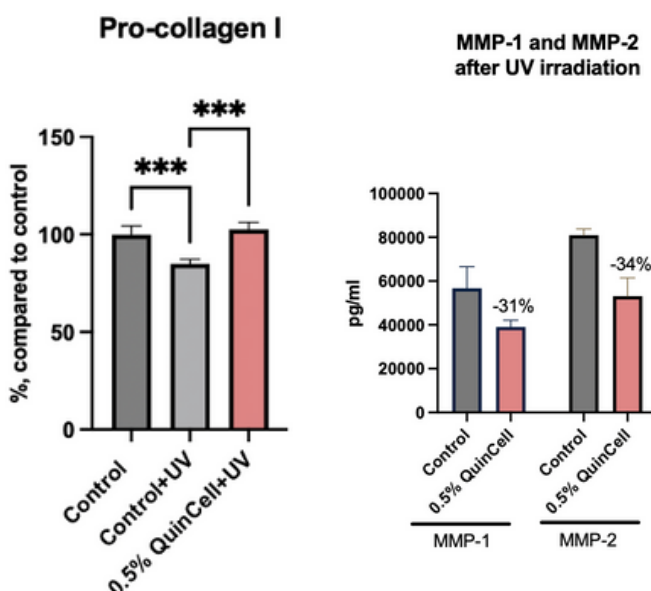
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QuinCell



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 oxydative stress

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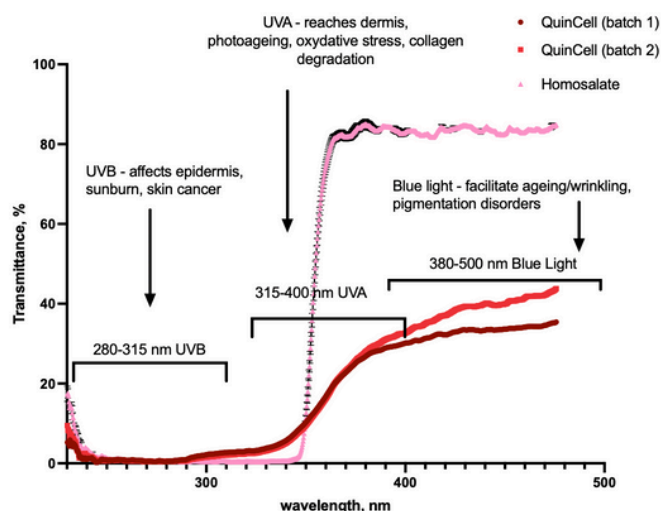


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Anthocyanin rich **QuinCell** absorbs both **UVA and UVB** contributing to sun protection and increasing the efficacy of SPF filters.

- 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%)

Technical specification – data sheet

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

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