

Barrier enhancing

Skin nurturing

Anti-oxidant

**INCI:** glycerine, water, *Spirulina platensis* extract

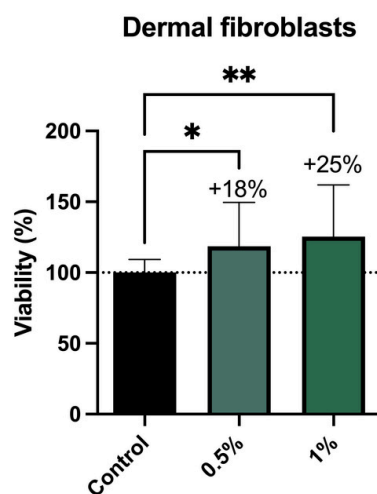
## Skin health benefiting microalgae

AquaCell is derived from blue-green microalgae *Spirulina platensis*. The extract provides nutrients for cell growth and skin cell normal turnover of skin cells. Its potent antioxidant properties help protect the skin from environmental stressors. Dominating compounds: mix of algal pigments, amino acids and vitamins.



## Chemical composition

Rich in skin health and regeneration promoting amino acids, peptides and polysaccharides. Contains phycocyanin - a well known protein-pigment complex with strong antioxidant activities.



Over 72h period AquaCell statistically significantly increase the proliferation of dermal fibroblasts.



**Amino acids** (isoleucine, glutamic acid, valine, phenylalanine, arginine, tyrosine, methionine, lysine)—improve moisture retention, enhance barrier function, support collagen synthesis



**Vitamin B3** – enhances barrier function, controls excess oil production



**β-D-Mannopyranose** – supports barrier function, helps retain moisture



**Dipeptides and tri-peptides** – small peptides composed that contribute to extracellular matrix synthesis

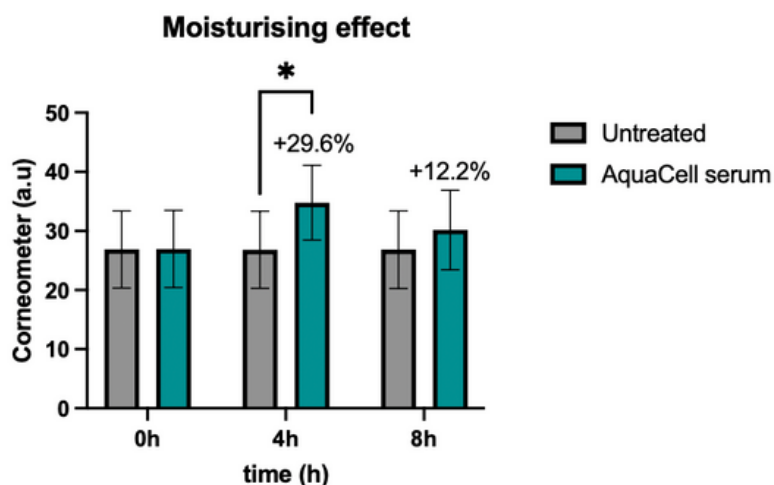


**Phycocyanin** – algal pigment that has antioxidative activity, supports barrier function and helps maintain skin moisture

## In vitro efficacy

Provides nutrients for cell growth and significantly increases the proliferation of dermal fibroblasts.

Protects skin cells from exogenous and endogenous oxidative stress



Volunteers (n=11) with dry skin type applied the serum containing 2% AquaCell and skin hydration was measured using Corneometer® CM 825 4 and 8 hours after application and skin hydration compared to untreated skin area.

Skin hydration increased noticeably 4 hours after application, with lasting benefits beyond 8 hours — demonstrating the moisturizing efficacy of AquaCell.

## Recommended uses

- Use level 1-4%
- Serums and creams intended for face and body skin hydration and regeneration
- Moisturising and nourishing products for periorcular skin
- After-sun products for skin hydration and moisturisation

## Technical specification – data sheet

<b>Product</b>	<b>AquaCell</b> INCI: Glycerin (and) aqua (and) <i>Spirulina Platensis</i> extract
<b>Appearance</b>	Green to dark green, slightly opalescent. Formation of small amounts of precipitate is normal and does not affect the quality.
<b>Odour</b>	Characteristic
<b>pH</b>	7.0 ± 1 at room temperature (22... 25 °C)
<b>Solubility</b>	Water soluble
<b>Density</b>	1.10 – 1.20 g/l at room temperature (22... 25 °C)
<b>Microbiological quality (total plate count)</b>	Aerobic mesophilic bacteria < 100 cfu/g (ISO 21149) Yeasts < 100 cfu/g (ISO 16212) Enterobacteria 0 cfu/g (ISO 18415)
<b>Recommended concentration for use in cosmetic products</b>	1 - 4 %
<b>Shelf life and storage conditions</b>	12 months Store in room temperature, protect from light.

**AquaCell** — registered in the China National Medical Products Administration (NMPA) ingredient submission system.

**AquaCell – 228275-14381-1471**