

**DFK-GLOW™**  
NUTRACEUTICAL



**KERAPLAST**  
MANUFACTURING

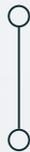
# What is DFK GLOW

**Similar to Collagen, Keratin is a structural protein and essential constituent for healthy skin, hair and nails. Collagen is the dietary fuel providing correctly structured amino acids. DFK Glow is the spark plug for this fuel, converting dietary collagen to the correct forms of collagen to enhance your inner beauty regime.**

DFK Glow works synergistically with dietary collagen to boost the body's ability to produce the right structural proteins to repair wrinkles and strengthen hair follicles and nails. This is achieved by activating skin cells that have the right nutritional input to specifically make collagen IV and collagen VII, the binding proteins that join the dermal and epidermal layers essential for smooth, wrinkle free skin as well as anchoring hair follicles into the scalp.



**As a result of the highest natural abundance of sulfur amino acids DFK Glow has also been shown to:**



Upregulate glutathione synthesis boosting antioxidant defence mechanisms, and

Promote taurine synthesis supplementing anti-inflammatory response

# DFK-GLOW™

**promotes and protects health of hair,  
skin and nails**

**DFK-GLOW™  
promotes**



Wrinkle reduction by building the dermal epidermal junction.



Stronger hair follicles by promoting anchoring of follicles in the scalp.



Healthy nail growth by providing the right amino acid balance.

**DFK-GLOW™  
reduces**



Ageing stresses to hair, skin and nail tissue



Radical induced damage



Inflammation to skin

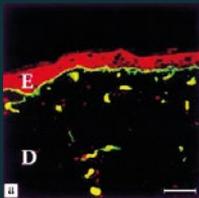


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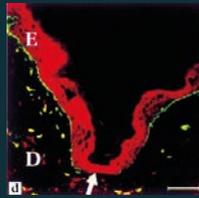
# DFK-GLOW™

**promotes wrinkle reduction by building the dermal epidermal junction.**

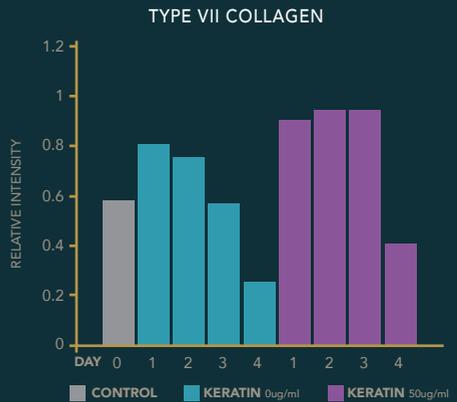
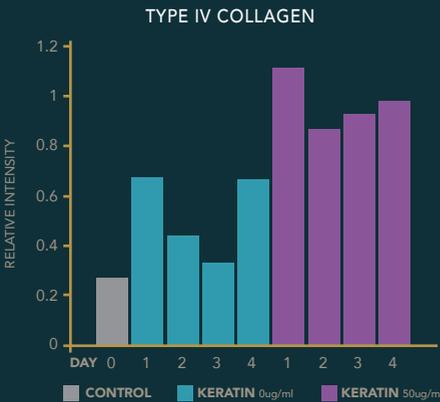
Collagens IV and VII are essential structural proteins that are the building blocks of the dermal-epidermal junction in the skin and hair follicle. Rebuilding the right type of collagen at the base of each wrinkle is an important approach to reversing wrinkle formation due to age associated collagen degradation (Contet-Audonneau et al., 1999)



Smooth skin showing the collagen IV (green) in the junction between the epidermis (E) and the dermis (D).



Wrinkled skin showing absence of collagen IV at the base of a wrinkle (arrow). The junction between epidermis (E) and the dermis (D).



Comparison of daily expression of collagen IV (left) and collagen VII (right) in skin cells (keratinocytes), comparing no keratin (light blue) and when keratin is provided as a cell nutrient (dark blue).

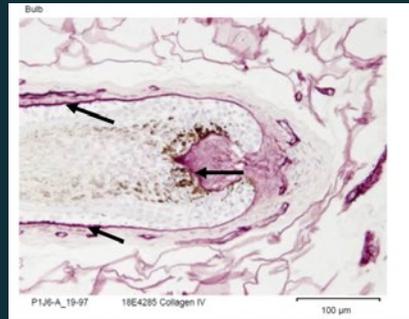
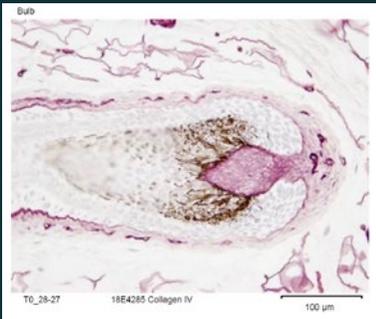
**Well nourished skin cells exposed to stress demonstrated a 35% faster skin cell growth with DFK™ GLOW added as a nutrient compared to standard cell nutrients, in particular increasing production of collagen IV and collagen VII each day after introduction of the keratin.**

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# DFK-GLOW™

**promotes stronger hair follicles by boosting anchoring of follicles in the scalp.**

Analysis of hair follicles using and ex-vivo study has shown that DFK™ promotes increased expression of collagen IV in particular in the hair follicle, strengthening the anchoring of the follicle into the skin and improving hair health (Roddick-Lanzilotta et. al., 2019).



Histology of an ex-vivo explant of hair before keratin application (left) showing collagen IV (purple) at the follicle junction and anchoring of the bulb (arrows). Hair follicle 6 days after keratin treatment (right) shows thickening of collagen IV at the junction and greater anchoring in the bulb (arrows).

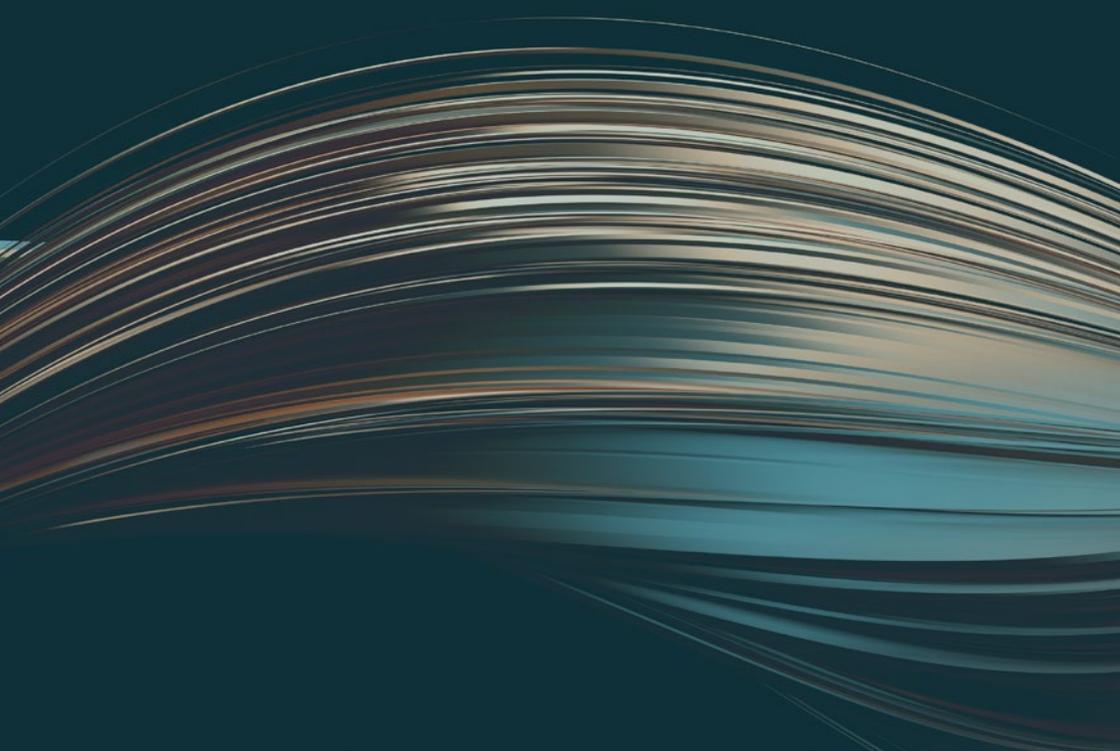
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## DFK-GLOW™

**Promotes healthy nail growth by providing the right amino acid balance.**

**DFK Glow is pure keratin protein, the same protein that nails are made from. Proteins common in nutrition and supplements, such as collagen (0g/100g), whey (2.1g/100g) or soy (1.1g/100g) have very low cystine contents compared to keratin (7-12g/100g).**

DFK GLOW is uniquely positioned to provide the right amount of cystine, and the right balance of the other amino acids required, to provide the body with what it needs for strong, healthy nail growth.



## Side effects

No known side effects of ingestion of DFK-Glow. For efficacy 400mg daily inclusion is recommended.

## Applications

DFK™ GLOW is a free-flowing powder ideal for tableting and capsules, recommended as a dietary supplement for vegetarian formulations targeting collagen production, healing, stress recovery and injury recovery. As a dietary supplement, the recommended dosage of DFK™ GLOW is 400mg daily.

## Stability

DFK- Glow is stable over a wide pH range and under conditions of elevated temperature.

## Quality Assurance

- ☉ Halal certified
- ☉ Vegetarian certified
- ☉ Non-GMO
- ☉ Sustainable harvesting and production, full ingredient traceability.

## References:

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