

Dermial[®]

Hyaluronic acid matrix ingredient

Use: skin & beauty Dose: 60 mg/day

Application: dietary supplements and functional foods

Dermial[®] is a unique **hyaluronic acid matrix ingredient** obtained through a proprietary manufacturing process that ensures a high concentration of hyaluronic acid (60-75%), plus a balance of other glycosaminoglycans, including dermatan sulfate and chondroitin sulfate, and collagen. Thanks to its **anti-ageing** and **regenerative properties**, Dermial[®] makes it possible to create leading nutraceutical products that unlock beauty from within.

The opportunity

Global nutraceutical ingredients market¹



\$3.71 billion in 2026



7% CAGR 2020-2026

Hyaluronic acid



34% of consumers associate it with skin health²



Global hyaluronic acid personal care products market expand at CAGR of 8.5% (2023-2033)³

The role of hyaluronic acid in the skin

Hyaluronic acid is present in the dermis and epidermis of the skin, where its **main function is to bind water to collagen, trapping water in the skin and keeping it moisturised**. As individuals age, however, the levels of endogenous hyaluronic acid and other glycosaminoglycans, such as dermatan sulfate and chondroitin sulfate, decrease, leading to changes in skin appearance.

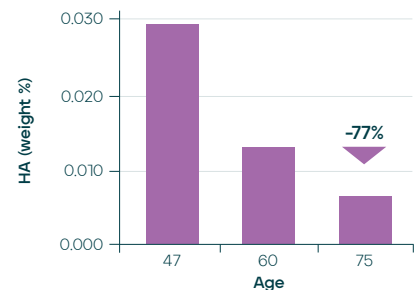


Figure 1. After 47 years of age, total endogenous hyaluronic acid decreases considerably.⁴

The solution: Dermial[®]

Increases skin moisture up to 30%
Anti-ageing properties

Powerful **regenerative activity**
Efficacy supported by science

Develop cutting-edge nutraceutical products with our biologically-derived hyaluronic acid matrix ingredient, Dermial[®] 5-9:

- 1 Has a **glow** effect
- 2 Improves the **hydration and elasticity** of the skin
- 3 Acts as a potent **regenerative agent**
- 4 Improves the **quality of the dermis and epidermis**, helping to maintain the health and nutrition of skin
- 5 **Is absorbed** in the intestine

1. Hydrates the skin

A group of women receiving 60 mg of Dermal[®] daily demonstrated a significant increase in stratum corneum hydration – the outermost layer of the epidermis – at six (13.1%) and twelve (12.1%) weeks versus baseline.

Galvez-Martin, P. et al. Journal of Investigative Dermatology, 2024. In press.

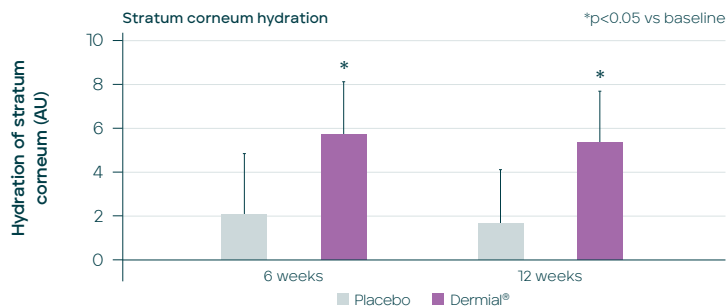


Figure 2. Change in hydration of the stratum corneum (right periocular area) following Dermal[®] supplementation.

2. Reduces wrinkles

After six weeks of supplementation, the placebo group demonstrated a 26.5% increase in wrinkles, whereas no changes in wrinkle size were observed in the group that had taken 60 mg of Dermal[®] daily. Dermal[®] therefore had a significant effect compared to placebo.

Galvez-Martin, P. et al. Journal of Investigative Dermatology, 2024. In press.

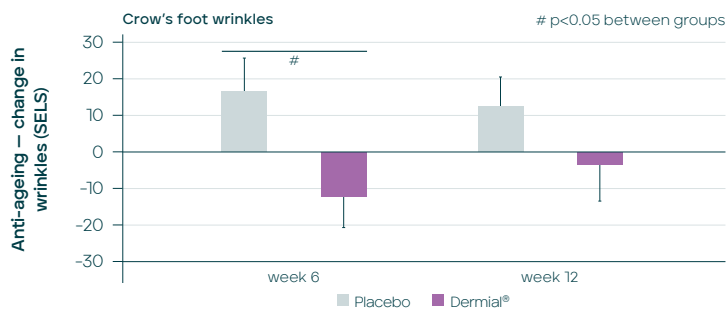


Figure 3. Assessment of crow's foot wrinkle (on right side) periocular area.

3. Activates facial 'glow'

A daily supplement containing 60 mg of Dermal[®] significantly increased the 'glow' – or brightness – of skin by 20% at six weeks and 33.4% at twelve weeks compared to baseline. No differences were observed in the placebo group versus baseline.

Galvez-Martin, P. et al. Journal of Investigative Dermatology, 2024. In press.

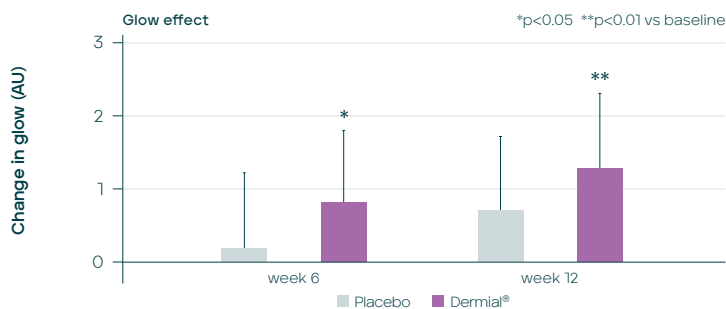


Figure 4. Increase in skin 'glow' following Dermal[®] supplementation.

4. Higher consumer satisfaction

An evaluation of global satisfaction following intervention (placebo or 60 mg/day Dermal[®]) confirmed that satisfaction was significantly higher in the Dermal[®] group compared to the placebo group. 69% of the supplemented group were "very satisfied" or "satisfied", and none were "dissatisfied" or "very dissatisfied". Only 42% of the placebo group were "very satisfied" or "satisfied", and 25% were "very dissatisfied" or "dissatisfied".

Galvez-Martin, P. et al. Journal of Investigative Dermatology, 2024. In press.

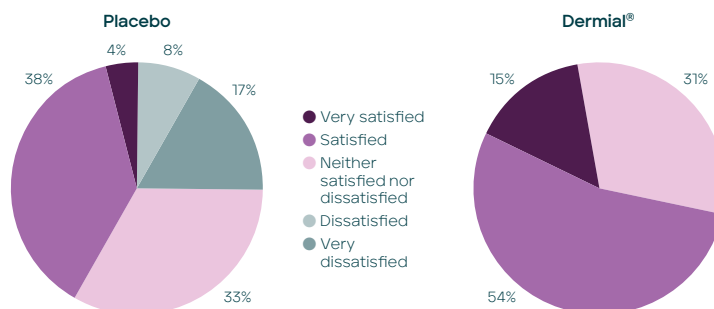


Figure 5. Global satisfaction evaluation following Dermal[®] or placebo intervention.

These statements have not been evaluated by competent food authorities. The product is not intended to diagnose, treat, cure, or prevent any disease. This information is only for business-to-business use and not meant to be addressed to final consumers.

References 1) Research and Markets. 2021 Nutricosmetic ingredients market – size, share, COVID impact analysis and forecast 2027. [report], 2021. 2) FMCG Gurus. Healthy Ageing: Skin health global report, 2022. 3) Future Market Insights. Hyaluronic acid personal care products market, 2023-2033. 4) Longas M et al. Carbohydr Res., 1887;159(1):127-36. 5) Torrent et al. Osteoarthritis Cartilage, 2010;18:S246-247. 6) Galvez-Martin et al. The FASEB Journal, 2022;36:R3806. 7) Canut et al. Regul Toxicol Pharmacol., 2012;62:532-41. 8) Galvez-Martin et al. Int J Mol Sci., 2023;24:4774. 9) Galvez-Martin et al. J of Invest Dermatol., 2024, in press.

About Bioiberica

Bioiberica is a global life science company with more than 45 years' experience in the research, production and commercialisation of molecules of high biological and therapeutic value for the pharmaceutical, nutraceutical and food industries.

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To innovate in the skin & beauty market using Bioiberica's Dermal[®], contact us today.

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