

Dermial[®]vet

Hyaluronic acid matrix for skin health



Skin Health



Dermial[®] is a quality ingredient for innovation on skin health pet food products. A trusted source of science-backed hyaluronic acid matrix extracted

from chicken comb, Dermial[®] contains a unique combination of sodium hyaluronate, polysaccharides and hydrolysed collagen.



Hyaluronic acid is present in the dermis and epidermis of the skin, where it helps maintain skin hydration.

DERMIAL[®]VET BENEFITS



- Acts as a potent regenerative, moisturising and antioxidant agent
- Boosts the quality of the dermis and epidermis layers, supporting skin health.
- GMO free and halal certified.
- Superior effect to fermentation origin HA.

PRODUCT DOSE in pet food



For nutritional supplements, consult on a case-by-case basis.

Dog: 26 ppm

Cat: 33 ppm



Drum of **10Kg, 5Kg y 1kg**



Shelf life: **36 months**



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TRIAL

Galvez-Martin, P et al. A Novel Hyaluronic Acid Matrix Ingredient with Regenerative, Anti-Aging and Antioxidant Capacity. Int. J. Mol. Sci. 2023, 24, 4774.

PURPOSE

The effect of **Dermial[®]** was assessed to determine its mechanism of action. Multiple in vitro studies were performed to explore the ingredient's regenerative, moisturising and anti-aging properties.

MATERIALS & METHODS

In vitro studies were performed on primary human dermal fibroblasts (HDF) and primary human epidermal keratinocytes (HEK;).

RESULTS

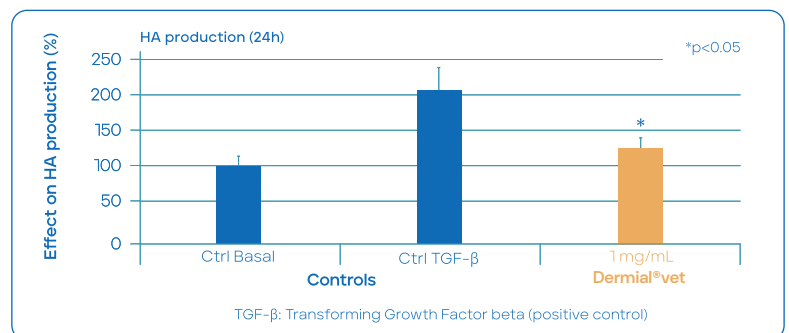
The results of this study suggest that the HA matrix has a variety of potential benefits for the skin, including stimulating cell migration and proliferation, inducing the synthesis of collagen, elastin and GAGs, and protecting against ROS-induced DNA damage and ROS production.

HA matrix could be absorbed in the intestine, implying its oral use for skin care. These properties may make the HA matrix a useful ingredient in skin health products.

1.1 Hyaluronic acid synthesis

Dermial[®]vet significantly increases the synthesis of hyaluronic acid in HDF, which are responsible for producing the dermal ECM that forms the connective tissue of the skin.

Figure 1. Increased hyaluronic acid production in HDF cells with Dermial[®]vet



1.2 Type I collagen production

Dermial[®] significantly increases the synthesis of type I collagen by 48% ± 11.49. Through this action, Dermial[®] supports the maintenance of the skin's structure and moisture content, and thickness of the dermis; helping to maintain a healthy skin.

Figure 2. Increased production of type I collagen in HDF cells with Dermial[®]vet

