

HYDRO-P PREMIUM



HYDRO-P PREMIUM OFFERS PROVEN HEALTH BENEFITS FOR DOGS AND CATS

Hydro-P Premium is a hydrolyzed collagen. It is a natural, high-purity and hypoallergenic bioactive ingredient. It is produced using an enzymatic process which optimizes digestibility and bioactivity, providing excellent performance and multiple benefits designed for companion animals. Scientific studies demonstrate the ability of hydrolyzed collagen to support health and long-term mobility. It helps to smooth the symptoms of osteoarthritis. It helps healing of wounds, burns and ulcers. Lastly, it helps to maintain healthy skin. Because of its satiety effect it is also recommended as an ingredient in weight control formulas.

Natural Ingredients. Smart Solutions.

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DARLING
INGREDIENTS

BIO-FUNCTIONALITY OF HYDRO-P PREMIUM

Hydrolyzed collagen is known to help with restoring, rejuvenating and maintaining the smoothness of the skin and coat. Hydrolyzed collagen supports the healing of wounds, burns and ulcers. Hydro-P Premium can help to prevent brittle nails, and can help to alleviate the symptoms of osteoporosis and osteoarthritis. For example limping.

COLLAGEN IS AN ESSENTIAL PART OF A BODY

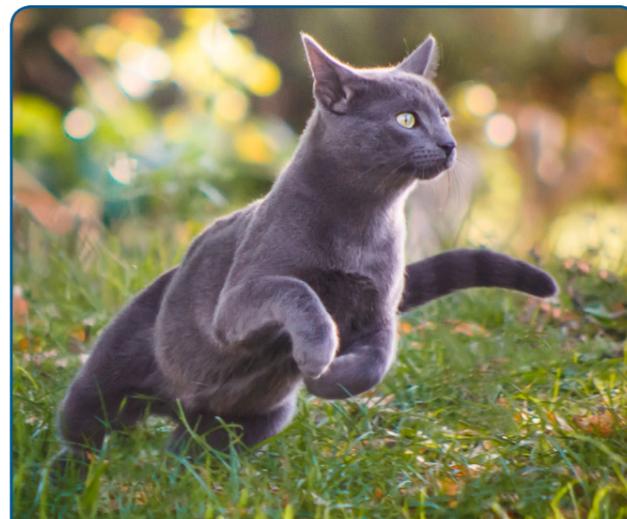
Collagen makes up 75% of animal connective tissue and more than 30% of the overall body's protein. The animal body produces a certain amount of collagen itself. When dogs and cats grow older, their bodies lose the ability to make enough collagen on their own and as a result the strength and integrity of connective tissues (skin, cartilage, ligaments and tendons) decline. Increasing problems can be observed with mobility and skin health as well as reduced appearance of fur or nails as dogs and cats age.

HYDRO-P PREMIUM IS HYPO-ALLERGENIC

The enzymatic hydrolysis of gelatin downsizes the molecular weight of Hydro-P Premium to 2.000 – 5.000 Da. In contrast to bigger polypeptides and proteins, these small molecules do not trigger any response from the auto-immune system. Because of its reduced size, the particles are easily absorbed in the gastro-intestinal track. Therefore, Hydro-P Premium is recommended as an ingredient in hypoallergenic formulas.

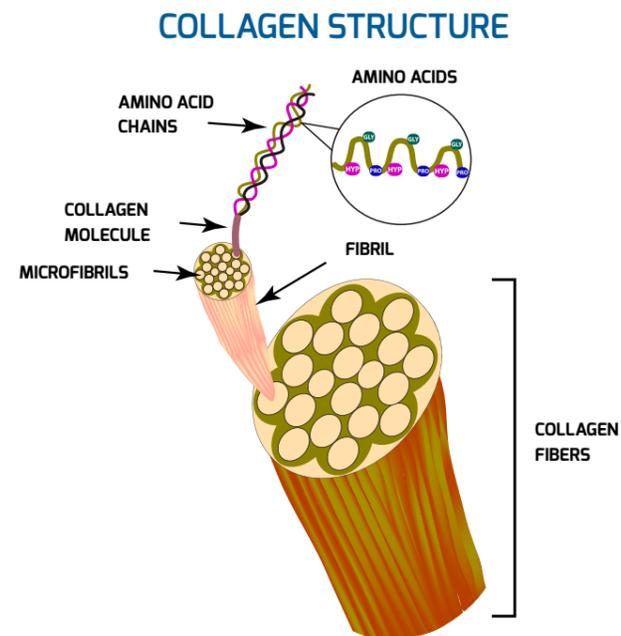
HYDRO-P PREMIUM SUPPORTS JOINT HEALTH

Hydrolyzed collagen supports the mobility of joints and helps to reduce the discomfort in osteoarthritic animals. Ingested collagen peptides accumulates in the cartilage and protects the cartilage from further degeneration. Hydro-P Premium helps to reduce inflammation and stiffness in the joint. It supports long term mobility and the well being of dogs and cats.



KEY BENEFITS OF HYDRO-P PREMIUM

- Maintains joint health and increases mobility
- Supports skin & fur health
- Helps with the healing of wounds, burns and ulcers
- Is hypoallergenic
- Has low calorific value



The elementary structural unit of collagen fibers is the collagen molecule that is made of a triple helix. Five collagen triple helices are packed sidewise into a quarter-staggered unit that is in turn longitudinally compacted into microfibrils. Microfibrils are continuous and run through the tissue. Collagen microfibrils are laterally compacted into fibrils and fibrils into fibers.

HOW COLLAGEN PEPTIDES HELP THE ANIMAL BODY?

Giving the body a message to produce collagen

Gelatin is not only an excellent option for improving texture of extrudates but also a protein source that is derived from animal collagen. Hydro-P Premium is a very pure form of protein, which does not contain any carbohydrates, fats and only trace amounts of minerals. It is a fully digestible ingredient characterized by low calorific value (<4 kcal/g). It contains 18 different amino acids. It is particularly rich in glycine, proline and hydroxyproline, which together represent almost 50% of the composition of the molecule.

Ingested hydrolyzed collagen

"preferentially accumulate" in cartilage

A study by Oesser showed, more than 95% of C-labeled hydrolyzed collagen taken orally are absorbed and accumulated in the cartilage of animals as early as 12 hours after ingestion. The concentration was twice as high in the group receiving hydrolyzed collagen vs. the control group. Therefore, demonstrating that hydrolyzed collagen "preferentially accumulates" in cartilage, resulting in support of body mobility.

Stimulating osteoblasts (bone cells)

Dietary hydrolysed collagen increases osteoblast activity (measured in primary tissue culture), which acts on bone remodeling and enlarges the external diameter of cortical areas of the femurs. Which suggests that animals supplemented with hydrolyzed collagen could benefit from the intensified formation of bone-forming cells (osteoblasts) and higher level of their activity helping them to prevent or reduce symptoms of osteoporosis.

Improving the skin's mechanical strength

Other scientific investigations proved that hydrolyzed collagen can reinforce the fibroblast density and the thickness of collagen fibrils in the dermis and can boost the mechanical strength of the skin improving the health of skin and coat.



RECOMMEND DOSAGE OF HYDRO-P PREMIUM

	Body weight (KG)	Dosage (G/Day)*
Dogs	<5	3.5
	6-8	7
	9-28	10
	29-45	14
Cats	46-70*	18
	<5	2.5
	5-10	3.5

*0.3 - 0.7g of Hydro-P Premium / kg of body weight / day

Disclaimer: the communication to the end user is the responsibility of the pet food producer.



WHERE WORLDS MEET

Where worlds meet is offered you by Sonac Pet Foods, a leading producer of reliable, sustainable ingredients for pet food and other industries worldwide, with representation on 4 continents and activities in 60 different locations. Operating on a unique residuals-to-resources concept, we process raw materials of animal origin, and develop proteins, minerals, fats, gelatins and numerous other functional ingredients. As a dependable one-stop shop for smart, volume-driven, ingredient solutions. Our constant aim is to help manufacturers improve recipes and reach the highest levels of quality and environmental performance.

PART OF DARLING INGREDIENTS

Sonac is part of Darling Ingredients, the world's largest producer of sustainable natural ingredients from edible & inedible organic residuals and a respected global leader in repurposing. Our goal: to create sustainable food, feed and fuel ingredients for a growing population.



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