

SUPPORTS LONG-TERM MOBILITY



BIO-FUNCTIONAL
HYDRO-P PREMIUM



Natural Ingredients. Smart Solutions.

sonac

KEY BENEFITS OF HYDRO-P PREMIUM

Hydro-P Premium is a collagen hydrolysate. It is a natural, high-purity and hypoallergenic food-grade ingredient. Collagen hydrolysate can help to ease the symptoms of osteoarthritis and osteoporosis. It can also help to heal wounds and burns.

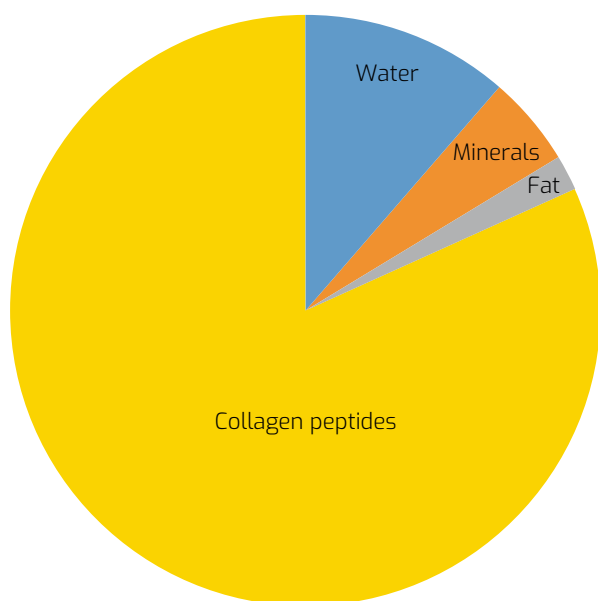
A BIO-FUNCTIONAL INGREDIENT

All cats and dogs deserve the best nutrition. This is why all of our bio-functional ingredients deliver additional value to maintain or boost animals' health. Hydro-P Premium is a high-quality collagen hydrolysate. Scientific studies in both animals and humans demonstrate the ability of collagen hydrolysate to support health and long-term mobility. Collagen hydrolysate can help to reduce the sensitivity and swelling associated with joint pain and limping. It also can support the healing of wounds and burns, and helps to maintain a healthy skin and coat.

MAIN CHARACTERISTICS

Hydro-P Premium is a collagen hydrolysate type I produced by Sonac. It is a powder with particle size of 80 mesh. It can be used in a wide range of pet food formulations as well as in a variety of snacks and treats. Hydro-P Premium contains mostly proteins (collagen peptides), 4% of minerals, less than 0,5% of fat and about 10% of water.

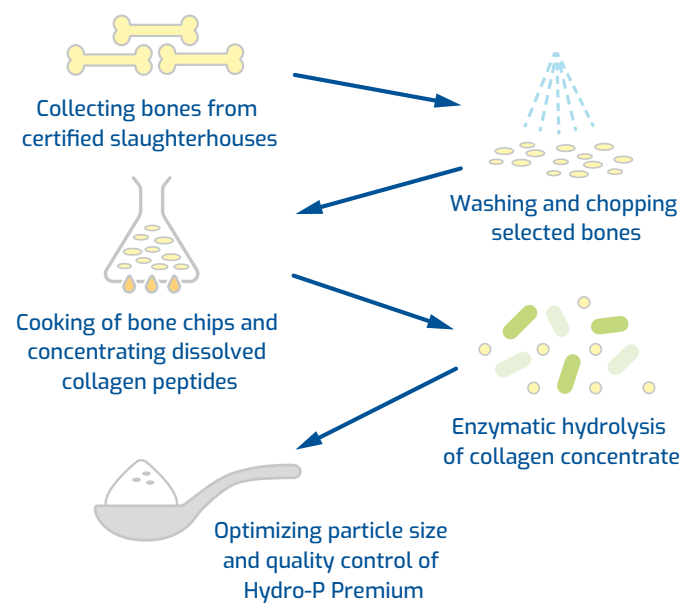
Figure 1. Nutritional components of Hydro-P Premium



CONTROLLED ENZYMATIC HYDROLYSIS ENSURES HIGH QUALITY

The bones used to produce Hydro-P Premium are collected from certified slaughterhouses. They are carefully selected and come only from healthy pigs approved for human consumption. Before cooking, the raw material is washed and chopped. Then the bone chips are cooked to transfer the collagen from the bones into water. The dissolved collagen is then carefully hydrolyzed with the use of enzymes, concentrated and spray-dried. Afterwards, the Hydro-P Premium particles are optimized to create a uniform powder. At the end of the process, each batch is carefully checked to ensure that our customers always receive the same, highest-quality collagen hydrolysate.

Figure 2. Production process of Hydro-P Premium



HYDRO-P PREMIUM IS HYPOALLERGENIC

The enzymatic hydrolysis of collagen 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 immune system. Because of their reduced size, the particles are easily absorbed in the gastro-intestinal tract. For this reason, Hydro-P Premium is recommended as an ingredient in hypoallergenic formulas.





COLLAGEN IS AN ESSENTIAL PART OF THE 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. However, when dogs and cats grow older, their bodies produce less collagen on their own. With age, the strength and integrity of connective tissues (skin, cartilage, ligaments and tendons) decline and increasing problems can be observed with mobility and skin health.

HYDRO-P PREMIUM SUPPORTS JOINT HEALTH

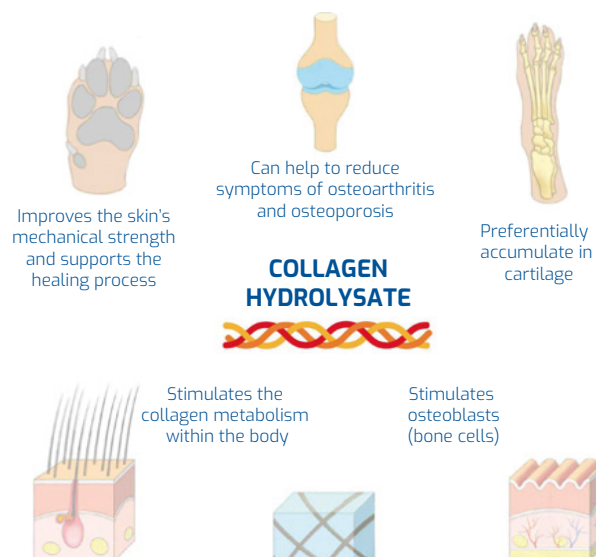
Collagen hydrolysate supports the mobility of joints and helps to reduce discomfort in osteoarthritic animals. Ingested typical collagen peptides accumulate in the cartilage and protect the cartilage from further degeneration. Hydro-P Premium can help to reduce inflammation and stiffness in the joints. It supports long-term mobility and the well-being of dogs and cats.

HOW COLLAGEN HYDROLYSATE HELPS THE ANIMAL BODY

Collagen hydrolysate supplementation counteracts the problems caused by reduced collagen production and stimulates long-term mobility as well as skin and coat health. Collagen peptides also preferentially migrate to cartilage, thereby helping to maintain joint health and mobility. In addition, collagen hydrolysate stimulates the activity of bone-forming cells (osteoblasts).

which may help to prevent or reduce the symptoms of osteoporosis. Furthermore, other scientific studies have shown that collagen hydrolysate may support skin health.

Figure 3. Benefits of collagen hydrolysate





APPLICATIONS

Pet food formulations enriched with Hydro-P Premium are especially recommended for cats and for large breeds of dogs. Hydro-P Premium is particularly suitable for pets that have a tendency to mobility disorders. It is also appropriate in foods for animals during a recovery period, in order to support the healing of wounds, joints and bones.

Table 1. 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
	46-70*	18
Cats	<5	2.5
	5-10	3.5

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

BENEFITS OF HYDRO-P PREMIUM

- Is a high-quality collagen hydrolysate
- Helps to maintain joint function and mobility
- Supports skin and fur health
- Helps with the healing of wounds, burns and ulcers
- Is hypoallergenic

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

BRINGING TOGETHER PRODUCTS, PEOPLE AND PETS

Operating on a unique residuals-to-resources concept, Sonac develops bio-functional, techno-functional and nutritional ingredients that benefit the pet food industry, pet owners and pets. We operate at the intersection of these three different stakeholders' worlds.

We are a leading producer of reliable, sustainable ingredients worldwide, with representation on 4 continents and activities in 60 different locations. 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.

Sonac is part of Darling Ingredients.



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