natural Stanvet

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CondroCare

With hemp, PEA and krill to support optimal joint health

Throughout the years, the joint structure of cats and dogs wears off due to factors such as weight, exercise, genetics or diet. Therefore, it is essential to nourish and protect their joints with the use of nutritional supplements destined to support a good joint health, so they enjoy a good quality of life. **CondroCare** contains an exclusive combination of natural ingredients that cover the 4 key aspects of chondroprotection: joint nutrition, lubrication, antioxidation and cartilage synthesis.

Ingredients

- ✔ Hemp *(Cannabis sativa)*
- ✔ Antarctic krill (source of Omega 3)
- ✔ Palmitoylethanolamide (PEA)
- ✔ Hydrolysed collagen
- ✔ Chondroitin and glucosamine
- ✔ Methylsulfonylmethane (MSM)

How does it work?

- ✔ It nourishes the connective tissues of the joints: cartilage, ligaments and tendons.
- ✔ It increases the lubrication in the joints.
- ✔ It protects the joint core from oxidation.
- ✔ It fosters the natural cartilage synthesis mechanisms.

When to use it?

- ✔ Puppies, especially large breed puppies.
- ✔ Senior cats and dogs.
- ✔ Sport dogs (sports such as agility, mushing, canicross or obedience) and working dogs.
- ✔ Nutritional support for animals with joint diseases such as osteoarthritis, dysplasia, or that have suffered traumas or undergone surgery.

CondroCare

With hemp, PEA and krill to support a good joint health

Composition per pill (2 g):

- Glucosamine . . . . . 350 mg
- Methylsulfonylmethane (MSM)* . . . . . 350 mg
- Hemp . . . . . 300 mg
- Chondroitin sulfate . . . . . 300 mg
- Hydrolysed collagen type II . . . . . 225 mg
- Krill . . . . . .75 mg
- Palmitoylethanolamide (PEA)* . . . . . .50 mg
- Excipients q.s.

(*MSM and PEA biotechnological origin).

Hemp

Hemp *(Cannabis sativa)* provides phytocannabinoids, that are molecules that have the ability to regulate the activity of the endocannabinoid system, a complex network that modulates key physiological processes such as the feeling of pain or the inflammatory processes. Thus, hemp helps to preserve the integrity of the cartilage through the inhibition of nitric oxide, reactive oxygen species and several pro-inflammatory cytokines.[1] In dogs with osteoarthritis, hemp extract showed that it helps to control pain and to increase the daily activity level, therefore improving their comfort and quality of life. [2]

Palmitoylethanolamide (PEA)

It is an endocannabinoid, a molecule produced by the organism itself that resembles phytocannabinoids of the Cannabis plant. PEA regulates various molecular pathways involved in pain modulation, inflammation or joint function through its interaction with the endocannabinoid system. The combination of PEA and Hemp exerts a synergistic effect: it produces more potent pain relief than would be obtained with compounds separately [3,4].

In CondroCare, PEA uses LipiSperse® technology, which enhances its bioavailability [4].

Antarctic krill

It fosters a good joint health thanks to its ability to control the inflammatory processes, therefore facilitating a correct mobility of the joints.[5] It is a source of ω-3 fatty acids, EPA and DHA in the form of phospholipids, the essential fatty acids that provide the quickest and most effective response in cats and dogs. Thanks to the contribution in the form of astaxanthin (a powerful antioxidant), the oxidative damage in the muscle and connective tissues is blocked.[6] It has a sustainable fishery certificate.

Hydrolysed collagen type II

Type II collagen is the main structural component of the cartilage in the joints. This ingredient provides a mix of amino acids and other components that are typical of collagen, and therefore they are used by the chondrocytes as a material for the synthesis of tissue. The hydrolysis treatment facilitates the digestion and transport of the molecules to the joints to help to restore their function.[7]

Chondroitin sulfate

It is the man glycosaminoglycan in the joint cartilage. It coats the collagen fibres. It fosters the synthesis of proteoglycans in the extracellular matrix, increasing the elasticity, and therefore joint mobility.[8]

Glucosamine

It modulates the activity of the chondrocytes, inducing the synthesis of glycosaminoglycans. In patients with osteoarthritis, it regulates the inflammatory processes and the degradation enzymes in the extracellular matrix, improving joint comfort.[7]

Methylsulfonylmethane (MSM)

MSM provides organic sulphur with a high bioavailability that has shown to have a key role in the connective tissue structural integrity. It modulates the expression of iNOS and COX-2, so that the secretion of pro-inflammatory cytokines such as IL-1β and TNF-α is reduced.[9] The triple combination of MSM, Glucosamine and Chondroitin showed a synergistic activity in the restoration of joint functionality.[10]

Directions for use:

Administer with food:

- Cats, dogs <5 kg: ¼ pill/day
- Dogs 5-10 kg: ½ pill/day
- Dogs 10-20 kg: 1 pill/day
- Dogs 20-40 kg: 2 pills/day
- Dogs > 40 kg: 3 pills/day

Packaging:

- 30-tablet container
- 90-tablet container
- 240-tablet clinical blister pack

References: **1** Barrie, N. et al. Int. J. Rheum. Dis. 20, 789–797 (2017). **2** Gamble, L.-J. et al. Front. Vet. Sci. 5, 165 (2018). **3** della Rocca, G.; Gamba, D., Animals 11, 952 (2021). **4** Clayton, P. et al. Int. J. Mol. Sci. 22, (2021). **5** Buddhachat, K. et al. Vitr. Cell. Dev. Biol. - Anim. 53, 448–457 (2017). **6** Burri, L. et al. Res. Vet. Sci. 121, 18–22 (2018). **7** Comblain, F. et al. J. Vet. Pharmacol. Ther. 39, 1–15 (2016). **8** Zhu, X. et al. J. Orthop. Surg. Res. 13, 170 (2018). **9** Butawan, M. et al. Nutrients 9, (2017). **10** Lubis, A. M. T. et al. Acta Med. Indones. 49, 105–111 (2017).

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