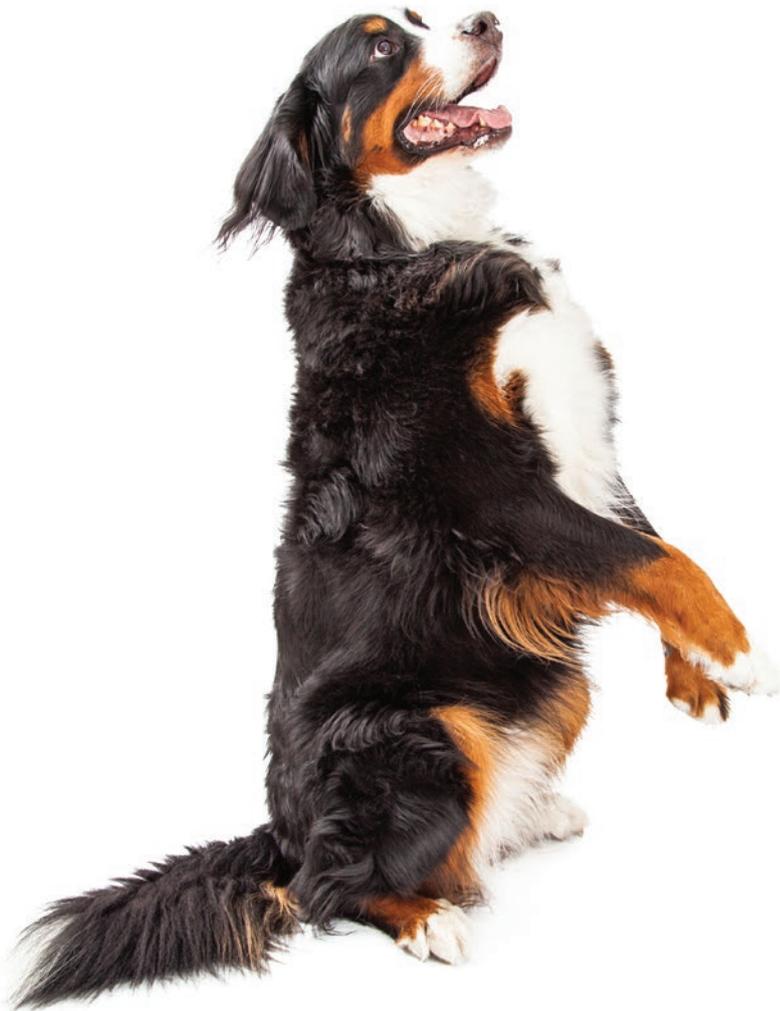


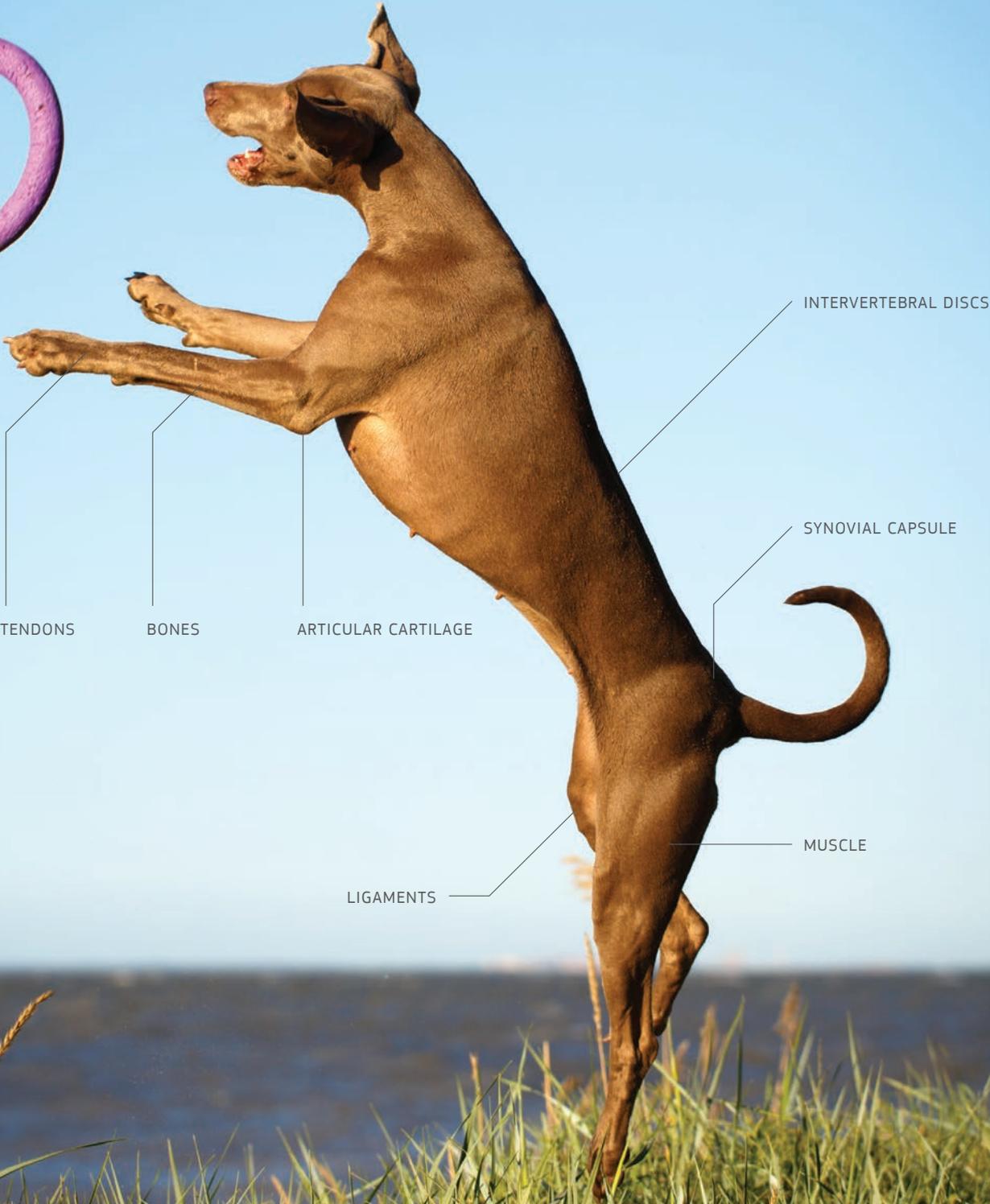


Absolutely,
Osteocart Plus



Because protecting the articular cartilage only, is not enough...

Osteocart Plus works on the entire osteoarticular system



TENDONS

BONES

ARTICULAR CARTILAGE

INTERVERTEBRAL DISCS

SYNOVIAL CAPSULE

MUSCLE

LIGAMENTS

Osteocart Plus

It is the **osteoarticular** product that contributes to the making of each one of the structures that make up the locomotor system. Its **unique formula** protects the joints from the stress and strain they go through.

AMINO ACID POOL

DL-methionine, L-cysteine, histidine and betaine

Required for protein synthesis at

MUSCULAR LEVEL

CHONDROCYTE:

Responsible for synthesizing:

- Proteoglycans
- Collagen Fibers
- Elastic Fibers

They form the organic matrix of the bone where the inorganic is fixed (Calcium).

They are part of ligaments and tendons.

MINERALS & VITAMINS

Cu & Zn - Vitamin E & Se

Antioxidant action: reduces the cell destruction process typical of osteoarthritis.

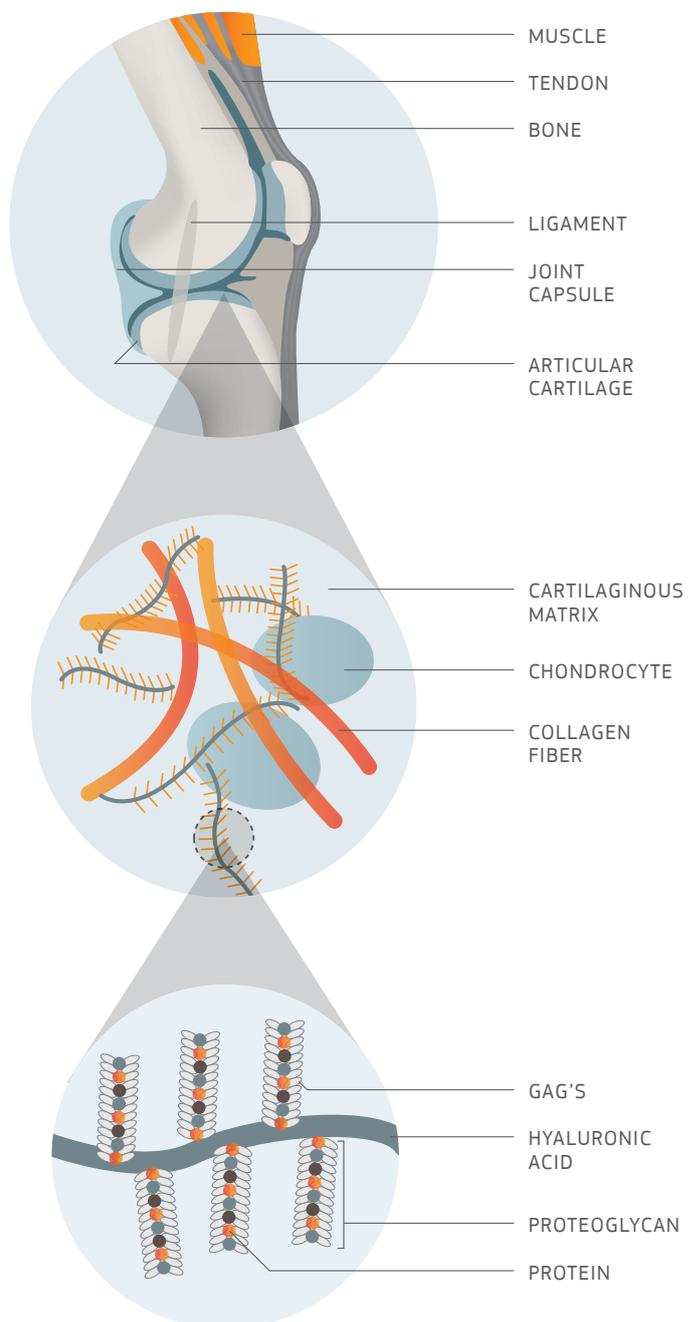
Cu and Zn - Vitamin B6 - Mg and Mn

Stimulate anabolic processes of cartilage and bone repair. They contribute to the making of ligaments and tendons. They also promote muscle response and recovery.

GLUCOSAMINE

Key amino sugar to produce:

- Chondroitin Sulfate (via chondrocyte)
- Hyaluronic acid of the cartilaginous matrix (via chondrocyte)
- High-density synovial fluid (synoviocyte pathway)



GROWING ANIMALS

Osteocart Plus promotes the development of puppies and kittens.



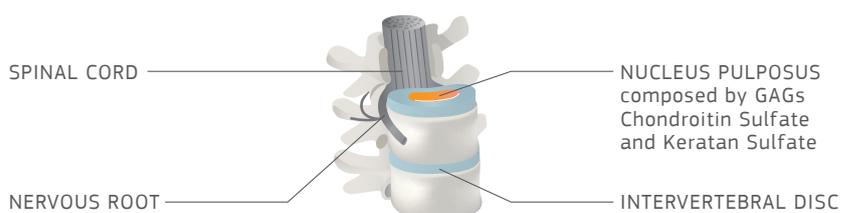
- › Promotes osteogenesis. It forms the organic matrix of the bone, in charge of fixing Calcium.
- › Improves poise. Contributes to proper building of tendons and ligaments.
- › Aids in the conformation of bones and joints.
- › Protects joint capsules.
- › Strengthens the hyaline cartilage present at all levels (articular capsules, auricular pavilions, intervertebral discs, etc.), by stimulating the production of elastic fibers, a key constituent of this tissue.
- › Contributes to preventing injuries at an early age.



CHONDRODYSTROPHIC ANIMALS

The condition of the intervertebral disc is characterized by the degeneration of the disc and consequent displacement, generating pressure on the spinal cord

The product acts directly on the cartilage of the intervertebral disc stimulating the production of keratan sulfate and chondroitin sulfate (main glycosaminoglycans - GAGs - present in the nucleus pulposus of the intervertebral disc).



ADULT ANIMALS

- › **Osteocart Plus** acts on the origin of the problem.
- › Restores functionality and movement of the injured joint.
- › Combats each stage of Osteoarthritis.

OSTEOCART PLUS WORKS AT EACH STAGE OF OSTEOARTHRITIS

1. ARTICULAR CARTILAGE INJURY

Osteocart Plus repairs cartilaginous matrix injuries. It increases the production of proteoglycans, hyaluronic acid and collagen due to its anabolic action on the chondrocyte.

2. CATABOLIC ENZYMES RELEASE

Osteocart Plus inhibits catabolic enzymes. It prevents chondrocyte damage and death.

3. CHONDROCYTE DEATH

Osteocart Plus protects, nourishes and stimulates the chondrocyte. It prevents its premature death.

4. ALTERED SYNOVIAL FLUID

Osteocart Plus stimulates synoviocytes. It increases the amount of hyaluronic acid, improves the viscosity and lubricating capacity of the synovial fluid.

7. MUSCULAR ALTERATIONS

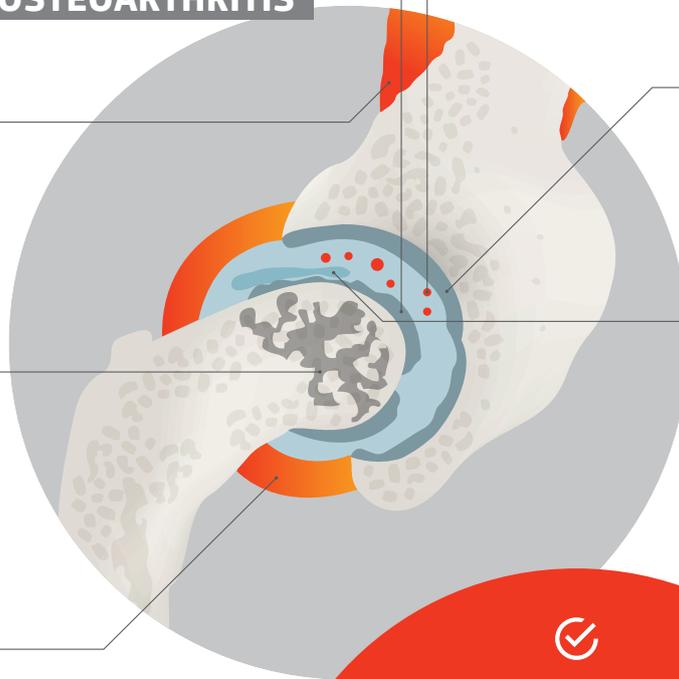
Osteocart Plus restores mobility and prevents muscular atrophy. It improves performance and recovery from exertion.

6. INJURY TO THE SUBCHONDRAL BONE

Osteocart Plus stimulates the formation of the bone's organic matrix. It accelerates the repair and restructuring of the subchondral bone.

5. INFLAMMATION AND PAIN

Osteocart Plus fights the causes of inflammation. Its regular use provides analgesia with sustained effects, while reducing the need for corticoids and/or NSAIDs.



SPECIALLY RECOMMENDED

in patients with various pathologies of the locomotor system, such as: discopathies, primary or secondary osteoarthrosis, osteoarthritis, tendinitis, in the different degrees of hip dysplasia, for use prior to joint or bone surgery and during convalescence, as an adjuvant in musculoskeletal rehabilitation therapies.



Osteocart Plus

TECHNICAL DATA SHEET

DESCRIPTION

Osteoarticular. Chondroprotector. Chondroreparator. Skeletal muscle anabolic. Articular anti-inflammatory and analgesic. Indicated in dogs and cats.

FORMULA

Each tablet of Osteocart Plus contains: DL-Methionine 52.2 mg. | L-Cysteine 8.35 mg. | Histidine 4.18 mg. | Betaine 4.18 mg. | Glucosamine 220.87 mg. | Pyridoxine (Vitamin B6) 8.35 mg. | Vitamin E 6.26 mg. | Copper (Cu) Glycinate 1.46 mg. | Zinc (Zn) Gluconate 16.9 mg. | Magnesium Gluconate (Mg) 10.46 mg. Manganese Gluconate (Mn) 10.46 mg. Sodium Selenite 0.005 mg. Excipients q.s. 1000 mg.

MECHANISM OF ACTION

- › Osteocart Plus stimulates the metabolism of the chondrocyte, supplying the raw material for it to elaborate Collagen fibers, Elastic fibers and Proteoglycans. The latter moisturize the cartilage, provide greater elasticity and improve its cushioning capacity.
Note that the only living element within the cartilage is the chondrocyte, which is nourished by diffusion through the water present in the substance or extracellular matrix. The hydration of the latter is crucial.
- › Collagen and elastic fibers are essential to the integrity of the extracellular matrix. This feature determines the normal anatomy and function of diverse structures (cartilage of the auricular pavilion, ligaments and tendons).
- › The amino acids are used by the chondrocyte to make proteins, essential element in the composition of proteoglycan, collagen and elastic fibers.
- › The chelated minerals and vitamins featured in Osteocart Plus participate in antioxidant processes at an osteoarticular level, by inhibiting the action of metalloproteases and collagenases, enzymes present in osteoarthritis and which are responsible for the destruction of the extracellular matrix and death of chondrocytes. The micronutrients present in the form of chelates such as Cu, Zn, Mg, Mn and Selenium, as well as Vitamins E and B6, perform extremely important functions at the cellular level by activating enzymatic systems needed for the synthesis of proteins and carbohydrates, which are part of collagen and elastic fibers, glycosaminoglycans and hyaluronic acid. They also act in the metabolism of nucleic acids and in the extracellular matrix, and are needed to neutralize and remove free radicals which accumulate to attack tissues.
- › Copper (Cu) is part of the most potent antioxidant enzyme in cartilage: Superoxide Dismutase (SOD). In the connective tissue, it is needed to maintain collagen unions, be a cofactor for enzymes, lysine and proline hydroxylases. It also helps prevent osteoporosis in growing puppies.
- › Zinc (Zn) is essential to the activity of more than 200 enzymes, either as a constituent part of them or as a cofactor. Its presence stabilizes macromolecules at the level of cell membranes
- › Magnesium is a trace element which is part of the bone matrix and is essential for proper muscle function. Osteocart Plus improves the muscles' capacity to endure and adapt to effort. It prevents myalgias of different origin due to its myorelaxant properties and promotes the rehabilitation of these functions.
- › The Glucosamine featured in Osteocart Plus stimulates the production of glycosaminoglycans (GAG's) in the chondrocyte.
Besides, its action on synoviocytes (cells of the synovial membrane) stimulates the production of high-density hyaluronic acid, replacing the impaired and low molecular weight hyaluronic acid resulting from inflammatory processes. This significantly improves lubrication, joint cushioning and cartilage nutrition. Glucosamine helps repair damage to the articular capsule and especially to the synovial membrane, avoiding fibrotic processes.
- › All components in Osteocart Plus work in an integrated fashion, such as the components of the joint. As a result, it eliminates joint pain even after treatment is discontinued, making Osteocart Plus the drug of choice for the prevention of damage and pain management in osteoarticular conditions.

DOSAGE

Administer Osteocart Plus for periods of 30 days or more according to your Veterinarian indications.

- Puppies, cats and dogs up to 10 kg: ½ tablet daily.
- Puppies and adult dogs from 10 to 25 kg: 1 tablet daily.
- Adult dogs from 25 kg: 2 tablets daily.

AVAILABILITY

Cases of 30 and 120 tablets. These presentations can vary according to the country of residence.

CONTRAINDICATIONS

Do not administer in patients allergic or sensitive to any of its components.

STORAGE

Between 15°C and 30°C.