

Technical File: Prosamine®

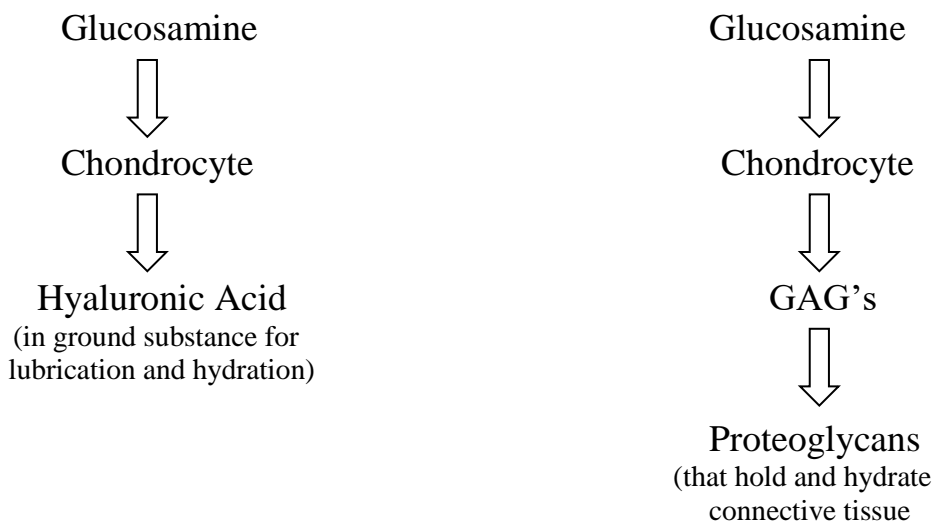
Primary Indication:

Glucosamine is a water-soluble amino sugar that nourishes and strengthens joint tissue. It supports the regeneration of connective tissue including cartilage, tendons, and ligaments. Glucosamine stimulates the chondrocytes in cartilage to make more hyaluronic acid, which is a major building block of the membrane between cartilage and the synovial fluid, as well as a component of the ground substance in connective tissue.

General:

Prosamine contains a powerful combination of ingredients that support rebuilding of cartilage, tendons, and ligaments by providing many of the basic building blocks used in the natural regeneration process. Many factors such as age, trauma, surgery or arthritis may influence how rapidly healthy connective tissue is built by your pet's body.

Glucosamine, through its increased availability, stimulates the chondrocytes in the cartilage to make more hyaluronic acid that goes into the ground substance of the tissue, building a wetter, plumper cartilage and providing lubrication. Studies also show that glucosamine will lead to the production of more glycosaminoglycans which are then incorporated into proteoglycans. These proteoglycans in the cartilage hold water and give it its shock-absorbing properties. The result is healthy joints and mobility, leading to active, happier pets.



Manganese is an important trace mineral relative to connective tissue. It is needed in enzymes for the incorporation of xylose and galactose into glycoproteins, which then go into mucopolysaccharides in synovial fluid, and CSA (sulfated derivative of chondroitin sulfate), which enters into the polysaccharide matrix of cartilage.

Ascorbic acid (vitamin C) and calcium amino acid chelate are added, as vitamin C and calcium are required to build strong connective tissue. Important structural amino acids cannot be built into cartilage without vitamin C.

Hydroxyproline is necessary if some of the raw material is lacking, as it is the scarcest amino component of collagen. Since it is not usually found in pets' food supplementation is the best way to provide adequate amounts to help your pet build healthy joint tissue.

The ingredients in Prosamine are beneficial for both dogs and cats. The convenient, flavored, chewable tablets are easy to give as a treat or broken onto pet's food.