Joint-Complex

DESCRIPTION
Joint-Complex provides a synergistic combination of glucosamine, chondroitin, methylsulfonylmethane (MSM), and other nutritional synergists. Glucosamine-HCL is a well-absorbed source of glucosamine, an important precursor for the synthesis and maintenance of connective tissues. Chondroitin sulfate also supports formation of connective tissues, primarily joint cartilage and helps protect existing cartilage. MSM, a derivative of DMSO, is a naturally occurring compound of sulfur. Additional ingredients contained in this comprehensive joint protective formula are listed below.

FUNCTIONS
Glucosamine is a naturally occurring amino sugar found in glycosaminoglycans, integral components of the proteoglycans found in joint cartilage. Proteoglycans are large carbohydrate rich structures that provide resiliency, load distribution, shock-absorbing, compressive and lubricating properties to joints and connective tissues. The availability of glucosamine is an integral part of the synthesis of glycosaminoglycans and proteoglycans that are necessary during the constant remodeling that aging cartilage undergoes. Thus, the maintenance of healthy aging cartilage may be improved with enhanced deposition of glycosaminoglycans and proteoglycans. Dietary glucosamine serves as an immediate precursor for glucosaminoglycan synthesis, and also stimulates incorporation of other precursors into the connective tissue matrix. Bioavailability of oral glucosamine sulfate is excellent. It is absorbed intact, and utilized very quickly by all tissues, including connective tissues. Glucosamine sulfate is more efficiently used for connective tissue metabolism than other glucosamine sources, such as cartilage extracts or chondroitin sulfate. In summary, glucosamine sulfate is a well recognized, highly effective source of glucosamine for glycosaminoglycan and proteoglycan synthesis in all connective tissues, such as cartilage, ligaments, tendons, skin, and bone.

MSM, a derivative of DMSO, is a naturally occurring compound of biologically available sulfur, an indispensable element in human nutrition. As part of the amino acids methionine and cysteine, sulfur is required for the structural integrity and function of almost every protein in the body, as well as the glycosaminoglycans of cartilage and other connective tissue. Dietary MSM serves as a versatile donor of metabolically active sulfur for the synthesis of numerous organosulfur compounds and proteins in the body. As such, MSM helps maintain normal immune response, lung function, connective tissue metabolism, and muscle contraction. MSM occurs naturally in a variety of foods, such as fruits, vegetables, cereal grains, milk, and fish. However, MSM is volatile and easily lost during cooking. MSM is very well absorbed by the intestinal tract and rapidly distributed within the body.

Although vitamin C has numerous biological functions, foremost, it is essential for the synthesis of collagen and glycosaminoglycans which are the building materials of all connective tissues, such as joint cartilage, tendons, blood vessels, skin, and bone. Ascorbic acid (vitamin C) is the required coenzyme for two groups of enzymes that catalyze the cross linking of collagen fibers - lysyl hydroxylases and prolyl hydroxylases. Consequently, vitamin C is essential for the normal structure and function of connective tissue.

INDICATIONS
Joint Complex may be a useful nutritional adjunct for individuals who wish to support the structure and function of the body’s connective tissues, such as cartilage, bone, tendons, ligaments, and skin.

FORMULA
This formula contains a synergistic combination of joint supports including: vitamin A (acetate), vitamin C (ascorbic acid), vitamin E (d-alpha toco acetate), vitamin B-1, Vitamin B-2, niacinamide, vitamin B-6

SUGGESTED USE
Take (1) Packet Daily as a dietary supplement. Do not exceed recommended dose. This product is not intended for persons with allergies to shellfish. Not to be used by pregnant or nursing mothers or children under the age of 18. If you have a known medical condition, consult your physician before using this or any dietary supplement.

SIDE EFFECTS
No adverse effects have been reported.

STORAGE
Store in a cool, dry place, away from direct light. Keep out of reach of children.

REFERENCES


† These statements have not been evaluated by the Food and Drug Administration. This product is not intended to diagnose, treat, cure, or prevent any disease.