



GLUCOSAMINE CHONDROITIN COMPLEX

GLUTEN FREE

COMPREHENSIVE JOINT & CARTILAGE SUPPORT
MSM • Bromelain • Protective Herbs

Clinician-formulated Glucosamine Chondroitin Complex is intended to provide nutritive support for healthy joint & cartilage structure, healthy circulation and joint comfort with meaningful levels of scientifically researched ingredients.

A natural, holistic approach to helping support the environment of cartilage and joints as a whole includes three distinct, interrelated aspects of joint health: nutrition, circulation and comfort.

PIONEER® Glucosamine Chondroitin Complex helps support this “whole-joint” approach beginning with two primary ingredients: glucosamine and chondroitin. These structural building blocks of joint tissue are provided in researched levels. Boron, sulfur and other minerals used in normal collagen synthesis are intended to help provide additional nutritional support for joints. Time-honored herbs, hawthorn and gotu kola, are added with the intent to help provide nutritive support for enhanced microcirculation in the tiny blood vessels that carry nutrients to—and waste products away from—joint tissues. Finally, we include ingredients intended to help provide nutritive support for soothing joint comfort: bromelain, turmeric, gotu kola and MSM. Many of these ingredients also offer antioxidant support, to help quench the free radicals frequently associated with irritated joints.

CONSIDER THESE PIONEER® ADVANTAGES:

1. Meaningful Levels of Glucosamine and Chondroitin Sulfate. The integrity of joint gliding surfaces (as well as the health of tendons, ligaments, joint fluids, skin, bones, heart valves and virtually all structural elements in the body) is dependent upon the proper synthesis and availability of proteoglycans, integral components of joint cartilage. Glucosamine provides two components critical to the synthesis of proteoglycans: hyaluronic acid and glycosaminoglycans (GAGs). Chondroitin sulfate represents an important group of GAGs. It is not a single compound, but rather a class of compounds with different molecular weights that each have specialized functions within the body.

Widely regarded for their role in helping to support healthy joints, both glucosamine and chondroitin have been studied for their purported ability to help provide nutritive support for healthy cartilage.¹⁻³

2. MSM (methylsulfonylmethane) contains sulfur, a mineral required for GAG synthesis. Research suggests that MSM may help to provide nutritive support for joint health, especially when taken along with glucosamine.⁴

3. Turmeric (*Curcuma longa*). This saffron-colored root contains potent antioxidants clinically suggested to help support cellular health in liver tissue and throughout the body. Turmeric compounds, notably curcumin, have been the subject of research for their potential role in supporting joint health.⁵

4. Bromelain refers to a group of potent selective protein-digesting enzymes (proteases) derived from pineapple cores. In clinical use for nearly half a century, bromelain has been studied for its purported ability to help provide nutritive support for healthy soft tissue and musculoskeletal comfort.⁶

5. Gotu Kola (*Centella asiatica*), an important herb in Chinese and Ayurvedic medicine, has been used for decades in Europe to help provide nutritive support for normal circulation. Gotu Kola is reported to help provide nutritive support for healthy collagen synthesis, the normal production of GAGs, and healthy circulation - notably in small blood vessels.^{6,7}

6. Hawthorn (*Crataegus oxycantha*) is a time-honored cardi tonic intended to provide nutritive support for healthy circulation. Hawthorn contains potent antioxidant flavonoids and oligomeric procyanidin compounds (OPCs) that exhibit an affinity for connective tissue and may help support the production of GAGs.⁸ Glucosamine Chondroitin Complex includes 100 mg of the well-researched leaf/flower extract.

7. Trace Minerals including boron, manganese and others play many roles in helping to build, support and nourish healthy joint connective tissue and cartilage matrix. This formula provides quality mineral chelates plus a full complex of bioavailable trace minerals from natural sea vegetation.

8. Enhanced Absorption with Bioperine®, a highly concentrated (95% piperine) black pepper extract clinically suggested to help support the absorption of many nutrients and herbs including curcumin.⁹

Serving Size 4 capsules Bottles of 120 capsules	AMOUNT PER SERVING	%DV
Total Carbohydrate	2 g	<1%†
Protein	<1 g	<1%†
Calcium (as chondroitin sulfate calcium)	45 mg	5%
Manganese (as manganese citrate)	2 mg	100%
Sodium (from chondroitin sulfate sodium)	35 mg	1%
Glucosamine Complex (93% glucosamine sulfate, 7% n-acetyl d-glucosamine)(shellfish)	1500 mg	*
Chondroitin Sulfate Complex (3:1 chondroitin sulfate calcium: chondroitin sulfate sodium)(bovine, BSE-free)	1000 mg	*
MSM (methylsulfonylmethane)	500 mg	*
Boron (boron citrate complex)	2 mg	*
Bromelain 2500 GDU/g (from pineapple)	100 mg	*
Trace Mineral Complex (as sea vegetation: <i>Lithothamnion</i> spp.)	50 mg	*
Gotu Kola <i>Centella asiatica</i> Aerial (supplying 15 mg (10%) total asiaticosides)	150 mg	*
Turmeric <i>Curcuma longa</i> Root Extract (stand. to 95 mg [95%] curcuminoids)	100 mg	*
Hawthorn <i>Crataegus oxycantha</i> Leaf/Flower Extract (stand. to 1.8 mg [1.8%] vitexin-2-rhamnoside)	100 mg	*
Black Pepper Extract <i>Piper nigrum</i> (95% piperine) [Bioperine®]	2 mg	*

†Percent Daily Value based on a 2,000 calorie diet *Daily Value (DV) not established
Other ingredients: gelatin (capsule), cellulose, vegetable magnesium stearate, maltodextrin (carrier), silica. Bioperine® is a trademark of Sabinsa Corp.
NOTE: Some ingredient details may be abbreviated on actual product labels. 10.07

(Over →)

For more information or to request additional copies:
800.247.6505
www.pioneer nutritional.com

Item: 2524443 10.07



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