

Not ALL chondroitin sulfates and glucosamine sulfates are created equal

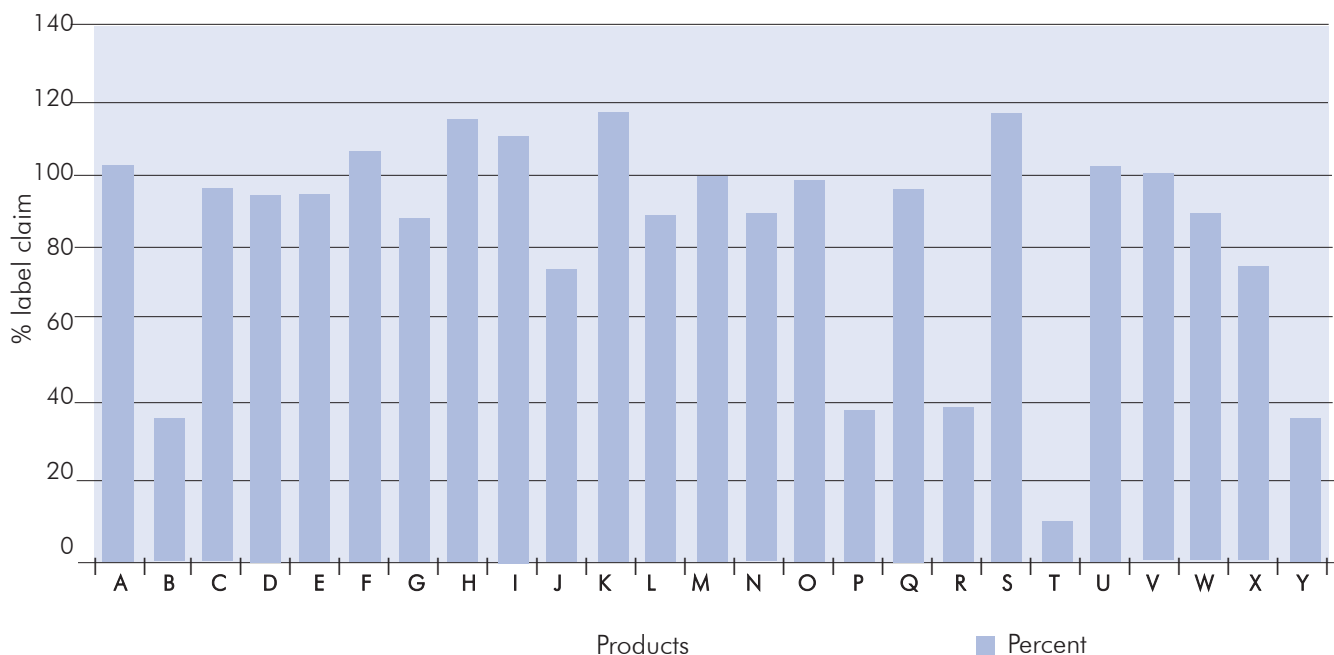
For nearly ten years, millions of people with osteoarthritis have used chondroitin sulfate to relieve pain and other symptoms. Numerous supplement manufacturers have brought chondroitin sulfate supplements to the market. However, not all chondroitin sulfate supplements are of equal quality and efficacy.

Several studies have found that supplements do not always contain what is printed on their labels. One such study, published in the Journal of the American Nutraceutical Association, analyzed the amount of chondroitin sulfate actually contained in 32 different products and found that "twenty-six out of 32 products were found to contain less than 40% of label claim." Only five brands contained as much chondroitin sulfate as their labels stated. According to Health Canada, the Natural Health Products Directorate's (NHPD's) regulation, medicinal ingredients must be compliant with their label claim with a tolerance limit of 80-120%.

Figure 1 (below) shows the percent label claim of products containing chondroitin sulfate and/or glucosamine sulfate as determined by a validated UV-HPLC method using size exclusion chromatography (Univ. of Maryland Analysis). The graph shows that not all products in the market meet the NHPD requirements. Biomed products are regularly tested and have been confirmed by third-party laboratory testing that the quantity of chondroitin sulfate and glucosamine sulfate in Biomed finished products meet or exceed label claims and are compliant with NHPD regulations.

Biomed sources its chondroitin sulfate and glucosamine sulfate ingredients exclusively from Biobiberica (a Spanish company which since 1975 has pioneered advancements in pharmaceuticals and dietary supplements which are exported to over 40 countries in the world).

Percent label claim of products containing glucosamine hydrochloride or sulfate (Product A to N) and/or chondroitin sulfate (Product O to Y)



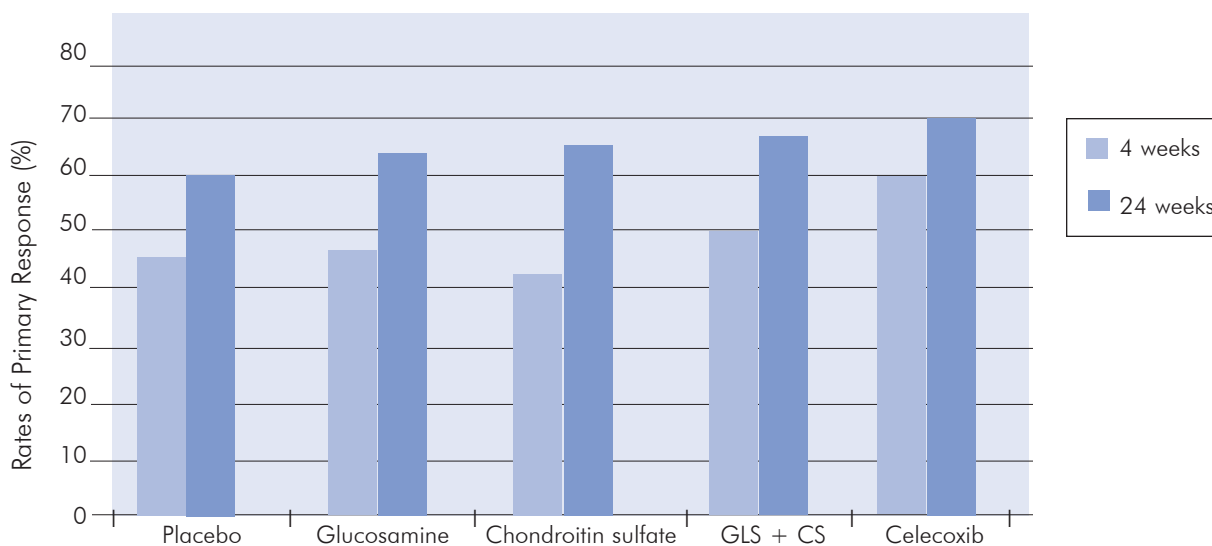
Through its dedication to research, Bioiberica has established itself as one of the most prestigious names in the industry for top quality raw material that are backed by science.

Biobiberica has also conducted extensive number of clinical studies in the joint care materials. One of the studies that was published in *The New England Journal of Medicine* on February 23, 2006 focuses on "Glucosamine, Chondroitin sulfate, and the two in combination for painful knee osteoarthritis". Patients were 40+ years of age with knee pain of at least 6 months duration and x-ray evidence of knee osteoarthritis. Patients were randomly assigned double-blind to placebo, glucosamine 1500 mg daily, sodium chondroitin sulfate 1200 mg daily, glucosamine plus chondroitin sulfate at the above doses, or celecoxib 200 mg daily for 24 weeks. All patients were allowed up to 4000 mg daily of acetaminophen as rescue analgesia, except within 24 hours of study visits. The result shows glucosamine and chondroitin sulfate alone may not be effective enough to reduce joint pain. However, it was shown the combination of the two ingredients may be effective in the group of patients with moderate-to-severe knee pain. Figure 2 shows primary response was defined as a 20% decrease in the summed score for the pain sub-scale of the Western Ontario and McMaster Universities Osteoarthritis Index.

Bioiberica's glucosamine sulfate and chondroitin sulfate can be found in Biomed's **LIGAFLEX™**, **J.A.W.S.™** and **MSM-GLS+™**. Biomed foremost consideration in sourcing ingredients is quality. Consequently, it relies on "European sourced" glucosamine sulfate (from Bioiberica) instead of the less expensive, lower quality Chinese-sourced material that is prevalent elsewhere in the market. Also, the chondroitin sulfate in Biomed's **J.A.W.S.™** is from shark cartilage (from Bioiberica), which is 40% chondroitin (instead of the 8-11% chondroitin which many of Biomed's competitors use).

***Experience the different quality makes.
Trust products from Biomed (and Bioiberica) for quality.***

Rates of a Primary Response in the Five Groups at 4 and 24 Weeks



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