

Chondroitin sulfate

Cat. No. COP01 Lot. No. (See product label)

SPECIFICATION

Product Overview

Source	Bovine Cartilage
Description	Chondroitin sulfate is a sulfated glycosaminoglycan (GAG) composed of a chain of alternating sugars (N-acetylgalactosamine and glucuronic acid). It is usually found attached to proteins as part of a proteoglycan. A chondroitin chain can have over 100 individual sugars, each of which can be sulfated in variable positions and quantities. Understanding the functions of such diversity in chondroitin sulfate and related glycosaminoglycans is a major goal of glycobiology. Chondroitin sulfate is an important structural component of cartilage and provides much of its resistance to compression. Along with glucosamine, chondroitin sulfate has become a widely used dietary supplement for treatment of osteoarthritis. Biomart's Chondroitin sulfate is extracted from bovine cartilage.
Appearance	White or Slight Yellow Powder
Purity	greater than 95% by CPC & HPLC
PH	5.5-7.5
Taste/ odor	No strong odors
Assay by cpc on dry basis	95% min

 Tel: 1-631-559-9269 1-516-512-3133

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Specific rotation	-20---- -30
Solubility	Soluble 5% water solution be clear
Mesh	100% pass 80mesh
Sulfate	0.24% max
Tap density	0.65-0.72g/ml
Loss on dry	10% max
Residue on Ignition	20% --30%
Chloride	5000 ppm max
Arsenic	2ppm max
Protein	4.5% max
Heavy metals	10ppm max
Total plate count	1000cfu/g max
Yeast & mold	100 cfu/g
Salmonella	Negative
E. Coli	Negative
Storage	Preserve in tight containers

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Validity

Two years

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