



American International Chemical, Inc.

Corporate Offices: (800) 238-0001

Internet: www.aicma.com Email: info@aicma.com

SPECIFICATION SHEET

CHONDROITIN SULFATE SODIUM USP

Bovine

Code No.	SCN No.	CAS No.	Effective Date	Product Manager	Rev. No.	Approved By
CSBBUP	1540	9082-07-9	December 4, 2007	SW	Original	TJK

CHARACTERISTICS:	White to off white powder. Sodium salt of the sulfated linear glycosaminoglycan obtained from bovine cartilages of healthy and domestic animals (US origin) used for food by humans. Chondroitin Sulfate consists mostly of the sodium salt of the sulfate ester of N-acetylchondrosamine (2-acetamido-2-deoxy- β -D-galactopyranose) and D-glucouronic acid copolymer. These hexoses are alternately linked β -1,4 and β -1,3 in the polymer. Chondrosamine moieties in the prevalent glycosaminoglycan are monosulfated primarily on the position 4 and less so on the position 6.
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SPECIFICATIONS:	Assay (calculated on dry basis)	90.0-105.0%
	Clarity and color of solution	To pass test
	Identification	
	A. Infrared Absorption	To pass test
	B. Sodium	To pass test
	Specific rotation	Between -20.0° and -30.0°
	Microbials	
	Total bacterial	1000 cfu/g max
	Molds and yeasts	100 cfu/g max
	Salmonella	Absent
	Escherichia coli	Absent
	Staphylococcus aureus	Absent
	pH (1% @ 25°C)	5.5-7.5
	Loss on drying @105°C for 4 hours	10.0% max
	Residue on ignition	Between 20.0 and 30.0 %
	Chloride	0.50% max
	Sulfate	0.24% max
	Heavy metals	0.002% max
	Organic volatile impurities	Meets requirement
Electrophoretic purity	Less than 2% impurities	
Protein (dry basis)	6.0% max	

STOCKING POINTS:	Sioux Falls, IA
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PACKAGING:	25 kg and 50 kg fiber drums
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APPLICATIONS:	Dietary Supplement
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SHELF LIFE AND STORAGE INSTRUCTIONS:	Shelf life is 3 years from date of manufacture, if kept in a controlled environment. Chondroitin Sulfate sodium is extremely hygroscopic. Avoid exposure to the atmosphere.
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