



# American International Chemical, Inc.

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## SPECIFICATION SHEET

### CHONDROITIN SULFATE SODIUM

#### Bovine

Code No.	SCN No.	CAS No.	Effective Date	Product Manager	Rev. No.	Approved By
CSBCCP	2360	9007-28-7	January 24, 2011	SW	Original	CDS

<b>CHARACTERISTICS:</b>	White to off white powder. Sodium salt of the sulfated linear glycosaminoglycan obtained from bovine cartilages of healthy animals. Chondroitin Sulfate consists mostly of the sodium salt of the sulfate ester of N-acetylchondrosamine (2-acetamido-2-deoxy- $\beta$ -D-galactopyranose) and D-glucouronic acid copolymer. These hexoses are alternately linked $\beta$ -1,4 and $\beta$ -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. This material is irradiated, not tested by enzymatic HPLC and USP equivalent without analysis.
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<b>SPECIFICATIONS:</b>	Purity (CPC dry basis)	90.0% min
	Appearance	Fine, hygroscopic powder
	Color	White to off white
	Clarity	0.35 max
	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
	pH (1% @ 25°C)	5.5-7.5
	Loss on drying @105°C for 4 hours	10.0% max
	Chloride	0.50% max
	Sulfate	0.24% max
	Heavy metals	0.002% max
Protein (dry basis)	6.0% max	

<b>PACKAGING:</b>	25 kg drums
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<b>APPLICATIONS:</b>	Dietary supplement, animal supplement
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<b>SHELF LIFE AND STORAGE INSTRUCTIONS:</b>	Shelf life is 2 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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