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SPECIFICATION SHEET

CHONDROITIN SULFATE SODIUM USP

Bovine

Code No.	SCN No.	CAS No.	Effective Date	Product Manager	Rev. No.	Approved By
CSBCC2	2360	9082-07-9	January 24, 2011	SW	Original	MPR

CHARACTERISTICS:	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- 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. This material is non-irradiated, enzymatic HPLC tested and full USP tested.
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SPECIFICATIONS:	Purity (CPC 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 aerobic bacteria	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
	Residue on ignition	Between 20.0 and 30.0 %
	Chloride	0.50% max
	Sulfate	0.24% max
	Heavy metals	0.002% max
Electrophoretic purity	Less than 2% impurities	
Protein (dry basis)	6.0% max	

STOCKING POINTS:	Carson, CA
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PACKAGING:	25 kg drums
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APPLICATIONS:	Dietary Supplement
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SHELF LIFE AND STORAGE INSTRUCTIONS:	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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