



Product Specification Data Sheet

Bovine Chondroitin Sulfate Sodium >90%

<u>Description:</u>	A white hygroscopic flowing powder
<u>Source:</u>	Bovine Trachea/Cartilage.
<u>Grade:</u>	Food
<u>Solubility:</u>	H ₂ O
<u>Molecular Weight in Daltons:</u>	10,000 ~ 20,000
<u>CAS #:</u>	9082-07-9
<u>Formula:</u>	(C ₁₄ H ₂₁ NO ₁₄ S) _n
<u>Particle Size:</u>	100% Thru 80 Mesh.
<u>Origin of Trachea:</u>	USDA Approved Trachea/Cartilage
<u>Country of Origin:</u>	U.S.A.

<u>Description:</u>	<u>Standard</u>	<u>Results</u>
Color:	White	Visual
Odor:	Deodorized	Olfactory
Texture:	Powder	Visual
Taste:	Characteristic	Gustatory

<u>Analytical:</u>	<u>Standard</u>	<u>Results</u>
Chloride:	<0.5%	Conforms
pH: (1% Solution)	5.5 ~ 7.5	Conforms
Loss on Drying:	<10%	Conforms
Sulfate:	<0.24%	Conforms
Sulfur:	5.5% ~ 7.5%	Conforms
Protein:	<6%	Conforms
Electrophoretic Purity:	<2%	Conforms
Sodium:	<2 ~ 4%	Conforms
Nitrogen:	<3% ~ 4%	Conforms
Bulk Density Tapped:	<0.65 ~ 0.70 g/ml	Conforms
Bulk Density Untapped:	<0.55 ~ 0.60 g/ml	Conforms

<u>Chondroitin Assay:</u>	<u>Standard</u>	<u>Results</u>
By CPC Titration:	>90%	Conforms
By Carbazole:	>90%	Conforms
Enviro-Test:	>90%	Conforms
HPLC Schuster:	>90%	Conforms

<u>Heavy Metals:</u>	<u>Standard</u>	<u>Results</u>
Lead:	<0.5 ppm	Conforms
Cadmium:	<1 ppm	Conforms
Mercury:	<0.1 ppm	Conforms
Arsenic:	<1 ppm	Conforms

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<u>Microbiological Standards:</u>	<u>Standard</u>	<u>Results</u>
Total Plate Count:	<1000 cfu/g	Conforms
Salmonella:	Absent	Conforms
Total Coliforms:	Absent	Conforms
E.Coli:	Absent	Conforms
Staphylococcus aureus:	Absent	Conforms
Pseudomonas aeruginosa:	Absent	Conforms
Yeasts:	<10 cfu/g	Conforms
Molds:	<10 cfu/g	Conforms

Organic Volatile Impurities: Meets the requirements

Solvent Residual: Meets the requirements

Chemical Name:

1(2/3)-N-acetyl-2-amino-2-deoxy-3-O-beta-D-glucopyranosyl-4-(6)sulfonyl-D-galactose.

This product conforms to California's Proposition 65, which regulates toxic substances

This product complies with Eur. Ph 6.5 requirements

This product is manufactured according to USP 33 Parameters

Shelf Life:

Three years from date of manufacture.

Storage & Handling:

Tightly sealed in a clean, cool, dry location.

Container Type:

25/kg net fiber drums with polyethylene liner.

Store at room temperature (30^o +/- 2^o. Celsius Degrees), Humidity at 70 +/-5%, protect from light.

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