



# Product Specification Data Sheet

## Porcine Chondroitin Sulfate Sodium >90%

**Description:** A white hygroscopic flowing powder  
**Source:** **Porcine Trachea/Cartilage**  
**Grade:** Food/Nutraceutical  
**Solubility:** H<sub>2</sub>O  
**Molecular Weight in Daltons:** 10,000 ~ 20,000  
**CAS #:** 9082-07-9  
**Formula:** (C<sub>14</sub>H<sub>21</sub>NO<sub>14</sub>S)<sub>n</sub>  
**Particle Size:** 100% Thru 80 Mesh.  
**Origin of Trachea:** **USDA Approved Trachea/Cartilage**  
**Country of Origin:** **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:	<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:	<0.01 ppm	Conforms
Arsenic:	<1 ppm	Conforms

### HEADQUARTERS USA

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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\*

\*\*The parameters mentioned on this Specification Sheet were tested according to USP 34\*\*

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<sup>o</sup> +- 2<sup>o</sup>. Celsius Degrees), Humidity at 70 +-5%, protect from light.

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