



Product Specification Data Sheet

Droi-Kon® Chondroitin Sulfate

Molecular Formula: (C₁₄H₂₁NNaO₁₅S)
Molecular Weight in Daltons: 10,000 - 20,000
Grade: Food/Nutraceutical
Species: USDA Approved Bovine Cartilage (*Bos primigenius*)
CAS #: 9082-07-9
Country of Origin: USA

Description

Appearance: A white hygroscopic flowing powder
 Particle Size: 100% thru 60-80 Mesh
 Solubility: H₂O

Analytical:

Color:	Conforms	White
Odor:	Conforms	Characteristic or Deodorized
Texture:	Conforms	Powder
Taste:	Conforms	Characteristic

Analytical:

	Result	Requirement	Reference Method
Chondroitin Sulfate: (dry basis)	Conforms	90% to 105%	USP 37 CPC Titration
Chondroitin Sulfate:	Conforms	>90%	CPC Enviro
Chondroitin Sulfate:	Conforms	>90%	Carbazole
Chondroitin Sulfate:	Conforms	>90%	HPLC Schuster
Sodium:	Conforms	TO PASS TEST	USP 37 <191>
Disaccharide Composition:	Conforms	TO PASS TEST	USP 37 - NF 32
Chloride:	Conforms	<0.50%	USP 37 <221>
Sulfate:	Conforms	<0.24%	USP 37 <221>
Electrophoretic Purity:	Conforms	<2%	USP 37 - NF 32
Limit of Protein:	Conforms	<6.0%	USP 37 - NF 32
Total Bacterial Count:	Conforms	<1,000 CFU/g	USP 37 <2021>
Yeast Count:	Conforms	<100 CFU/g	USP 37 <2021>
Mold Count:	Conforms	<100 CFU/g	USP 37 <2021>
Salmonella:	Conforms	Absent	USP 37 <2022>
Escherichia coli:	Conforms	Absent	USP 37 <2022>
Limit of Nonspecific Dissacharides:	Conforms	<10%	USP 37 - NF 32
Clarity and color of Solution:	Conforms	absorbance <0.35	USP 37 - 32
pH:	Conforms	5.5 - 7.5	USP 37 <791>
Loss on Drying:	Conforms	<12.0%	USP 37 <731>
Identification:	Conforms	Positive	FTNIR
Species:	Conforms	Bovine cartilage	Tepnel Species ELISA
Bulk Density - Tapped	Conforms	0.65 - 0.70 g/ml	USP 37
Bulk Density - Untapped	Conforms	0.55 - 0.60 g/ml	USP 37
Nitrogen:	Conforms	2.5% - 3.8%	European Pharmacopeia
Sulfur:	Conforms	5.5 - 7.0%	European Pharmacopeia
Heavy Metals:	Conforms	<20 ppm	USP 37 <231>
Arsenic:	Conforms	<2 ppm	
Cadmium:	Conforms	<2 ppm	
Lead:	Conforms	<1 ppm	
Mercury:	Conforms	<0.5 ppm	

Chemical Name: Sodium (beta-Glucuronic acid-(1-3)N-acetyl-beta-galactosamine-4-sulfate
Shelf Life: Three (3) years from date of manufacture
Container Type: 25/kg net drums with polyethylene liner

**This product conforms to California's Proposition 65, which regulates toxic substances
 Preserve in tight, light-resistant container**