



Product Specification Data Sheet

Droi-Kon® Chondroitin Sulfate

Grade:	Food/Nutraceutical
Species:	USDA Approved Bovine Cartilage
CAS #:	9007-28-7
Country of Origin:	United States of America

Description:

Appearance:	A white hygroscopic flowing powder
Particle Size:	100% thru 60-80 Mesh
Solubility:	H ₂ O

Analytical:

Color:	Conforms	White to off-white
Odor:	Conforms	Characteristic
Texture:	Conforms	Powder
Taste:	Conforms	Characteristic

Analytical:

	Result	Requirement	Reference Method
Chondroitin Sulfate (dry basis):	Conforms	90% to 105%	USP 41 CPC Titration
Chondroitin Sulfate:	Conforms	>90%	Carbazole
Chondroitin Sulfate:	Conforms	>90%	HPLC Schuster
Chondroitin Sulfate:	Conforms	>90%	UV/VIS
Disaccharide Composition:	Conforms	TO PASS TEST	USP 41 - NF 36
Chloride:	Conforms	<0.50%	USP 41 <221>
Sulfate:	Conforms	<0.24%	USP 41 <221>
Electrophoretic Purity:	Conforms	<2%	USP 41 - NF 36
Limit of Protein:	Conforms	<6.0%	USP 41 - NF 36
Total Bacterial Count:	Conforms	<1,000 CFU/g	USP 41 <2021>
Yeast Count:	Conforms	<100 CFU/g	USP 41 <2021>
Mold Count:	Conforms	<100 CFU/g	USP 41 <2021>
Salmonella:	Conforms	Absent	USP 41 <2022>
Escherichia coli:	Conforms	Absent	USP 41 <2022>
Staphylococcus Aureus:	Conforms	Absent	USP 41 <2022>
Limit of Nonspecific Dissacharides:	Conforms	<10%	USP 41 - NF 36
Clarity and Color of Solution:	Conforms	absorbance <0.35	USP 41 - NF 36
pH:	Conforms	5.5 - 7.5	USP 41 <791>
Loss on Drying:	Conforms	<12.0%	USP 41 <731>
Identification:	Conforms	Positive	FTNIR
Species:	Conforms	Bovine Cartilage	Tepnel Species ELISA
Bulk Density - Tapped	Conforms	0.65 - 0.70 g/ml	USP 41- NF 36
Bulk Density - Untapped	Conforms	0.55 - 0.60 g/ml	USP 41- NF 36
Nitrogen:	Conforms	2.5% - 3.8%	European Pharmacopeia
Sulfur:	Conforms	5.5 - 7.0%	European Pharmacopeia
Molecular Weight in Daltons:	Conforms	10,000 - 15,000	Gel Permeation Chromatography
Heavy Metals:	Conforms	<20 ppm	USP 41 <231>
Arsenic:	Conforms	<2 ppm	
Cadmium:	Conforms	<2 ppm	
Lead:	Conforms	<1 ppm	
Mercury:	Conforms	<0.5 ppm	

Chemical Name: Poly-1(2/3)-N-acetyl-2-amino-2-deoxy-3-O-beta-D-glucopyranosyl-4-(6)sulfonyl-D-galactose

Shelf Life: Three (3) years from date of manufacture
Container Type & Storage: 25/kg net drums with polyethylene liner
Storage: Preserve in tight, light-resistant container

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