



## Product Specification Data Sheet

### Droi-Kon® Chondroitin Sulfate

**Molecular Formula:** (C<sub>14</sub>H<sub>21</sub>NNaO<sub>15</sub>S)  
**Grade:** Food/Nutraceutical  
**Species:** Marine Cartilage (Prionace glauca & Squalus acanthias)  
**CAS #:** 9007-28-7  
**Country of Origin:** USA

**Description:**

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

**Analytical:**

	<b>Result</b>	<b>Specification</b>
Color:	Conforms	White to off-white
Odor:	Conforms	Characteristic
Texture:	Conforms	Powder
Taste:	Conforms	Characteristic

**Analytical:**

	<b>Result</b>	<b>Requirement</b>	<b>Reference Method</b>
Chondroitin Sulfate (dry basis):	Conforms	90% to 105%	USP 37 CPC Titration
Chondroitin Sulfate:	Conforms	>90%	Carbazole
Chondroitin Sulfate:	Conforms	>90%	HPLC Schuster
Chondroitin Sulfate:	Conforms	>90%	UV/VIS
Chondroitin Sulfate:	Conforms	>90%	CPC Enviro Test
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>
Staphylococcus Aureus:	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	Shark 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
Molecular Weight in Daltons:	Conforms	10,000 - 15,000	Gel Permeation Chromatography
<b>Heavy Metals:</b>	<b>Conforms</b>	<b>&lt;20 ppm</b>	<b>USP 37 &lt;231&gt;</b>
<b>Arsenic:</b>	<b>Conforms</b>	<b>&lt;1 ppm</b>	
<b>Cadmium:</b>	<b>Conforms</b>	<b>&lt;1 ppm</b>	
<b>Lead:</b>	<b>Conforms</b>	<b>&lt;0.5 ppm</b>	
<b>Mercury:</b>	<b>Conforms</b>	<b>&lt;0.5 ppm</b>	

**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 & 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**