



Product Specification Data Sheet

Droi-Kon® Chondroitin Sulfate Sodium

Molecular Formula: (C₁₄H₂₁NNaO₁₅S)
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:

| | Result | Specification |
|----------|---------------|----------------------|
| 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 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> |
| Salmonela: | 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 | 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 |
| Molecular Weight in Daltons: | Conforms | 10,000 - 15,000 | Gel Permeation Chromatography |
| Heavy Metals: | Conforms | <20 ppm | USP 37 <231> |
| Arsenic: | Conforms | <1 ppm | |
| Cadmium: | Conforms | <1 ppm | |
| Lead: | Conforms | <0.5 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 & 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