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Product Specification Data Sheet

Droi-Kon[®] Chondroitin Sulfate

Grade: Food Supplement
Species: USDA Approved Bovine Cartilage
CAS #: 9082-07-9
Country of Origin: United States of America

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

| <u>Analytical:</u> | <u>Result</u> | <u>Specification</u> |
|--------------------|---------------|----------------------|
| Color: | Conforms | White to Off-White |
| Odor: | Conforms | Characteristic |
| Texture: | Conforms | Powder |
| Taste: | Conforms | Characteristic |

| <u>Analytical:</u> | <u>Result</u> | <u>Requirement</u> | <u>Reference Method</u> |
|---|-----------------|---------------------|---------------------------------------|
| Chondroitin Sulfate (dry basis): | Conforms | 90% to 105% | USP 41 < CPC Titration > |
| Chondroitin Sulfate: | Conforms | 90% to 105% | HPLC Schuster |
| Chondroitin Sulfate: | Conforms | 90% to 105% | UV/VIS |
| Sodium: | Conforms | TO PASS TEST | WLICP.409 |
| Chloride: | Conforms | <0.5% | USP <221> |
| Sulfate: | Conforms | <0.24% | USP <221> |
| Protein: | Conforms | <6.0% | AOAC 990.03/992.23 |
| pH: | Conforms | 5.5-7.5 | USP 40 p6543 |
| Moisture: | Conforms | <12.0% | WLEQU.008.01 |
| Identity Test by NIR: | Conforms | Chondroitin Sulfate | USP <1119> |
| Bulk Density - Tapped: | Conforms | 0.65 - 0.70 g/ml | USP {616} |
| Bulk Density - Untapped: | Conforms | 0.55 - 0.60 g/ml | USP {616} |
| Sulfur: | Conforms | 5.5% - 7.0% | AOAC 980-02 |
| Total Bacterial Count: | Conforms | <1,000 CFU/g | AOAC Modified |
| Yeast & Molds: | Conforms | <100 CFU/g | AOAC Modified |
| Staphylococcus Aureus: | Conforms | Absent | PCR |
| Escherichia coli: | Conforms | Absent | PCR |
| Salmonella spp: | Conforms | Absent | PCR |
| Clarity and color of Solution: | PASSES TEST | Absorbance <0.35 | USP 41-NF 36 |
| Identification: | Conforms | Positive | FT-NIR |
| Species: | Conforms | Bovine Cartilage | FT-NIR |
| Molecular Weight in Daltons: | Conforms | 10,000-15,000 | Gel Permeation Chromatography |
| Water Activity aw: | Conforms | <0.85 | AOAC 978.18 |

| <u>Heavy Metals:</u> | <u>Result</u> | <u>Requirement</u> | <u>Reference Method</u> |
|----------------------|---------------|--------------------|-------------------------|
| Arsenic: | Conforms | <1 ppm | USP <2232> |
| Cadmium: | Conforms | <1 ppm | USP <2232> |
| Lead: | Conforms | <0.1 ppm | USP <2232> |
| Mercury: | Conforms | <0.1 ppm | USP <2232> |

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

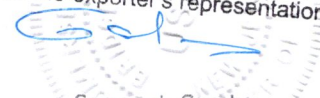
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The Somerset County Chamber of Commerce, a recognized Chamber of Commerce under the laws of the State of New Jersey, has examined the manufacturer's invoice and shipper's affidavit concerning the origin of the merchandise, and according to the best of its knowledge and belief, finds that the products named originated in the United States of North America, relying on the exporter's representation.


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 Gabriela M. Gomes
 NOTARY PUBLIC
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 MY COMMISSION EXPIRES April 14, 2025