

## **Certificate of Analysis**

Product Name: Chondroitin Sulfate
Starting Material: Bovine Cartilage

Country of Origin: China
Batch Number: Varies
Manufacture Date: Varies
Retest Date: Varies

## **Test Results Obtained by PureBulk**

ITEMS	SPECIFICATIONS	RESULTS
Chondroitin Sulfate (HPLC)	≥90.0%	99.74%
Loss on Drying (USP <731>)	≤12.0%	8.39%
Aerobic Plate Count	≤1000 cfu/g	<20 cfu/g
Coliforms	Report Only	<20 cfu/g
E. Coli	Negative	Absent
Staph <i>aureus</i>	Negative	Absent
Yeast & Mold	≤100 cfu/g	<20 cfu/g
Salmonella	Negative	Absent
Pseudo. aeruginosa	Negative	Absent
Conclusion (PureBulk):	This product conforms to standards	

The following information is an indirect translation of information provided from the Manufacturer's Certificate of Analysis, and should not be used solely as an instrument for strict quality control.

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ITEMS	SPECIFICATIONS	RESULTS
Appearance	White to Off-white Free Flowing Powder	Conforms
Identification	A: Infrared Absorption	Conforms
	B: A solution containing 0.5g in 10 ml	Conforms
	of water meets the requirements of	
	sodium	
Clarity and Color of Solution	≤0.35 at 420nm	Conforms
Protein	≤6.0%	3.52%
Specific Rotation	-20°~ -30°	-25.02°
рН	5.5~7.5	6.85
Bulk Density	≥0.55 g/ml	0.60 g/ml
Particle Size	100% Through 80 Mesh	Conforms
Residue on Ignition	20%~30%	24.10%
Heavy Metals	≤10 ppm	<10 ppm
Lead (Pb)	≤3 mg/kg	0.07 mg/kg
Arsenic (As)	≤1 mg/kg	0.1 mg/kg
Cadmium (Cd)	≤1 mg/kg	<0.005 mg/kg
Mercury (Hg)	≤0.1 mg/kg	<0.003 mg/kg
Organic Volatile Impurities	Meets the Requirements	Conforms
Electrophoretic Purity	Meets the Requirements	Conforms
Conclusion (Manufacturer):	This product conforms to USP40 standards	

Additional Information: Allergen- Free | Melamine free | Gluten-Free | No Pesticides |

BSE-TSE-Free Non-Vegan/Vegetarian Sewer Sludge Free

Ph: 1-541-679-1500 •

Toll Free: 1-888-280-0050

Fax: 1-541-393-9005

Composition statement: 100% Chondroitin sulfate, No carrier

Sterilization Information: Non-ETO | Non-Irradiation

GMO Statement: Non-GMO

Storage Conditions: Keep in sealed container under

Keep away from strong light, heat

and moisture.

Purebulk.Inc verifies that the information contained herein is true and correct to the best of our knowledge.

Verified By: Candace Gibson / Linda Heatley / Nicole Rammage

( This document was produced electronically and is valid without signature. )