






# JIAXING HENGJIE BIOPHARMACEUTICAL CO.,LTD

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## CERTIFICATE OF ANALYSIS

PRODUCT NAME: Chondroitin Sulfate Sodium USP 41

Origin	Bovine	Report Date	1/4/2022
Batch No.:	CS202201025	Quantity:	1000KG
Net Weight:	25KG/DRUM	Gross weight:	27.5G/DRUM
Manufacturing Date:	1/7/2022	Expiration Date:	1/6/2025

ITEMS	SPECIFICATIONS	TESTING METHOD	RESULTS
Appearance	White to Yellowish Powder	Visual	PASS
Taste/Aroma	Characteristic	GUSTATION	PASS
Identification	Infra-Red Confirmed	USP197K	PASS
	Sodium reaction	USP191	POSITIVE
Assay(Odb)	90%-105.0%	CPC	92.50%
	>90.0%	HPLC	90.90%
Loss On Drying	< 12%	USP731	9.93%
Protein	<6%	USP	4.50%
Ph (1% H <sub>2</sub> O Solution)	5.5-7.5	USP 791	6.10
Chloride	NMT 0.50%	USP 221	<0.50%
Sulfate	NMT 0.24%	USP 221	<0.24%
Specific Rotation	- 20°~ -30°	USP781S	-22.6°
Residue On Ignition (Dry Base)	20%-30%	USP281	25.40%
Organic Volatile Residual	NMT 0.5%	USP467	PASS
Clarity (5% H <sub>2</sub> O Solution)	<0.35 @ 420nm	USP 38	0.15
Electrophoretic Purity	NMT 2.0%	USP 726	PASS
Heavy Metals	≤20 PPM	ICP-MS/AOAC 993.14	<20PPM
Arsenic	≤2PPM	ICP-MS/AOAC 993.14	<2PPM
Lead	≤1PPM	ICP-MS/AOAC 993.14	<1PPM
Cadmium	≤1PPM	ICP-MS/AOAC 993.14	<1PPM
Mercury	≤1PPM	ICP-MS/AOAC 993.14	<1PPM
Total Plate Count	≤1000cfu/g	USP2021	<10CFU/G
Yeast & Mold	≤100cfu/g	USP2021	<10CFU/G
Salmonella	Negative	USP2022	Negative
E.Coli	Negative	USP2022	Negative
Staphylococcus Aureus	Negative	USP2022	Negative
Particle Size	100% Through 80 Mesh	In House	PASS
Bulk Density	>0.55g/cm <sup>3</sup>	In House	0.60g/ml
Chemist: 		Lab Supervisor: 	

Package: Net weight 25kgG/drum. Gross weight 27.5kg/drum  
 Storage: Keep in an airtight container under 25C degree, protected from light.  
 No-Irradiation, Non-GMO material.  
 Conclusion: Product conforms to specification.