



JIAXING HENGJIE BIOPHARMACEUTICAL CO., LTD.

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CERTIFICATE OF ANALYSIS

Product:	CHONDROITIN SULFATE		
Origin	Bovine	Report Date	2022/03/25
Batch No.:	HS2203152	Quantity:	575KG
Net Weight:	25KG/DRUM	Gross weight:	27.5G/DRUM
Manufacturing Date:	2022/03/18	Expiration Date:	2024/03/17
Product Code	HS001		

ITEM	SPECIFICATION	TESTING METHOD	RESULT
Appearance	White to Yellowish Powder	Visual	PASS
Taste/Aroma	Characteristic	GUSTATION	PASS
Identification	Infra-Red Confirmed	USP197K	PASS
	Sodium reaction	USP191	POSITIVE
Assay(Odb)	>90.0%	CPC	94.5%
Loss On Drying	< 12%	USP731	8.1%
Protein	<6%	USP	3.0%
Ph (1%H ₂ O Solution)	5.5-7.5	USP791	5.9
Specific Rotation	- 20°~ -30°	USP781S	-27.0°
Residue On Ignition (Dry Base)	20%-30%	USP281	24.6%
Chloride	NMT0.5%	USP221	<0.5%
Sulfates	NMT0.24%	USP221	<0.24%
Organic Volatile Residual	NMT0.5%	USP467	PASS
Clarity (5%H ₂ O Solution)	<0.35@420nm	USP38	0.16
Electrophoretic Purity	NMT2.0%	USP726	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 80Mesh	In House	PASS
Bulk Density	>0.55g/ml	In House	0.60 g/ml

PACKAGE: Net Weight 25KG/DRUM, Gross Weight 27.5KG/DRUM

STORAGE: Keep in an airtight container under 25°C, protected from light.

Non-Irradiation, Non-GMO material.

CONCLUSION: Product Conforms to Specifications.

Checker:

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Principal:

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