

**JIAXING HENGJIE BIOPHARMACEUTICAL CO., LTD.**  
**CERTIFICATE OF ANALYSIS**

COA NUMBER: HS1112010

Product:	CHONDROITIN SULPHATE SODIUM		
Original	BOVINE(Terrestrial)	Report Date	2011/12/16
Batch No.:	HS1112010	Quantity:	1000KG
Net Weight:	25KG/DRUM	Gross weight:	27.5KG/DRUM
Manufacturing Date:	2011/12/10	Expiry Date:	2013/12/09

ITEMS	SPECIFICATIONS	RESULT
Appearance	white to off-white Powder	Pass
Identification	Infra Red Confirmed (USP197K)	Pass
	Sodium reaction (USP191)	Positive
Assay	More than 90% (CPC)	91.6%
Loss on drying	Less than 10% (USP731)	8.9%
Protein	NMT 6.0% (USP30)	4.8%
Bulk density	NLT 0.55g/ml (USP616)	0.65g/ml
Heavy Metal	NMT 20PPM (Method I USP231)	<20PPM
PH (1% H <sub>2</sub> O solution)	5.5-7.5 (USP791)	6.5
Specific Rotation	Minus 20°_Minus 30° (USP781S)	-25.0°
Chloride	NMT 0.5% (USP221)	<0.5%
Sulfates	NMT 0.24% (USP221)	<0.24%
Residue on Ignition	20%-30% (dry base) (USP281)	24.8%
Clarity (5% H <sub>2</sub> O solution)	<0.35 @ 420nm	0.11
Organic Volatile Impurities	Meet requirements (USP467)	Pass
Electrophoretic purity	NMT 2.0% (USP726)	Pass
Total Bacteria Count	<1000 Col/g (USP2021)	<1000 Col/g
Yeast & Mold	<100 Col/g (USP2021)	<100 Col/g
Salmonella	Negative (USP2022)	Negative
E.Coli	Negative (USP2022)	Negative

Storage: 25kg/drum, keep in an airtight container, protected from light



**CONCLUSION: CONFORM TO USP30 REQUIREMENTS**

CHECKER:

刘文明

PRINCIPAL:

吴宝华