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CERTIFICATE OF ANALYSIS

Chondroitin Sulfate Sodium 90% USP

Solvents Used	<i>Water & Ethanol</i>	Country Of Origin	<i>China</i>
Sterillization Status	<i>Non Irradiation/ETO</i>	Standard	<i>USP</i>
Manufactureing Date	<i>6/12/2023</i>	Batch No.	<i>CS202306002</i>
Expiration Date	<i>6/11/2026</i>	Batch Quantity	<i>1000kg</i>

ITEMS	SPECIFICATION	RESULT	TEST METHOD
Appearance	White or off white powder	White powder	<i>In House Method</i>
I.D.-A Infrared absorption	Compare with the CRS	Corresponding	<i>USP</i>
I.D.-B General Sodium	Gives reaction of sodium	Positive	<i>USP</i>
I.D.-C Disaccharide Composition	Δ Di-4S / Δ Di-6S is NLT 1.0	> 1.0	<i>USP</i>
I.D.-D Specific Rotation	Between -20.0° to -30.0°	Meet requirement	<i>USP</i>
Content by CPC Titration	90.0%-105.0% (dried basis)	92.80%	<i>USP</i>
Content by HPLC	NLT 90.0% (dried basis)	91.00%	<i>In House Method</i>
Residue On Ignition	20.0%-30.0%	25.10%	<i>USP</i>
Chloride	NMT 0.50%	<0.50%	<i>USP</i>
Sulfate	NMT 0.24%	<0.24%	<i>USP</i>
Electrophoretic Purity	NMT 2%	<2%	<i>USP</i>
Limit Of Protein	NMT 6.0% (dried basis)	4.80%	<i>USP</i>
Total Bacterial Count	NMT 1000 cfu/g	10 cfu/g	<i>USP</i>
Yeasts & Molds	NMT 100 cfu/g	10 cfu/g	<i>USP</i>
Salmonella	Absence	Not detected	<i>USP</i>
Escherichia Coli.	Absence	Not detected	<i>USP</i>
Lead(Pb)	NMT 0.5 ppm	0.08 ppm	<i>In House Method</i>
Arsenic(As)	NMT 1.5 ppm	0.11 ppm	<i>In House Method</i>
Cadmium(Cd)	NMT 0.5 ppm	Not detected (<0.01)	<i>In House Method</i>
Mercury(Hg)	NMT 0.3 ppm	Not detected (<0.02)	<i>In House Method</i>
Nonspecific Dissaccharides	NMT 10.0%	Conforms	<i>USP</i>
Clarity And Color Of Solution	NMT 0.35 at 420nm	0.160	<i>USP</i>
Optical Rotation	-20.0° to -30.0°	-25.2°	<i>USP</i>
pH	5.5-7.5	6.6	<i>USP</i>
Loss On Drying	NMT 12.0%	9.60%	<i>USP</i>
Residue of Solvents	NMT 5000 ppm (Ethanol)	1650 ppm	<i>USP</i>
Particle Size	NLT 95% through 80 mesh	98.30%	<i>USP</i>
Bulk Density	0.6g/mL-0.85g/mL	0.64 g/mL	<i>USP</i>
Tapped Density	0.65g/mL-1.20g/mL	0.95 g/mL	<i>USP</i>

Storage: Preserve in tight containers.

Expiry Date: 36 months if store under the conditions above and stay in original packaging.

Packing: 25kg net. Polyethylene bag with cardboard drum.

CONCLUSION: CONFORM TO THE REQUIREMENTS OF USP.