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CERTIFICATE OF ANALYSIS

Product Name	Chondroitin Sulfate	Batch No.	181219
Package	25KG/Drum	Product Date	Dec.19,2018
Quantity	1000KG	Expiry Date	Dec.18,2020
Test Standard	USP39		
Items & Results			
Item	Spec.	Result	
Appearance	White to off-white powder	Conforms	
Identification	Infra Red Confirmed (USP197K) Sodium reaction (USP191)	Conforms Positive	
Assay(dry base)	≥90%	91.5%	
Loss on drying	≤10%	8.9%	
Protein	≤6.0%	4.9%	
Particle size	100%pass 80 mesh	Conforms	
Heavy Metal	≤20ppm	Conforms	
pH (1%H2O solution)	5.5-7.5	6.3	
Specific Rotation	- 20°~ -30°	-23.5°	
Residue on Ignition(dry base)	20%-30%	22.8%	
Clarity (5%H2O solution)	<0.35	0.18	
Electrophoretic purity	NMT2.0%	Conforms	
Total Bacteria Count	≤1000CFU/g	Conforms	
Yeast & Mold	≤100CFU/g	Conforms	
Salmonella	Negative	Negative	
E.Coli	Negative	Negative	
Staphylococcus Aureus	Negative	Negative	
Conclusion	CONFORM TO USP39 REQUIREMENTS		
Analyst	Ma Liang	Review	Liu Aiqin
		Supervisor of QC	Li Min

