

Chondroitin Sulfate Sodium

Derived from bovine bone through cooking, enzymatic hydrolysis, separation, purification and alcohol precipitation, followed by drying and milling. Its quality profile is aligned with Chinese Pharmacopoeia, EP, BP and USP specifications for health food and cosmetic applications.



Quality profile

Item	Specification	Result
Appearance	White or almost white powder	Pass
Identification	Liquid phase: consistent with reference retention time	Pass
	IR spectrum: consistent with the reference sample spectrum	Pass
	Sodium salt reaction: positive	Pass
Specific rotation	-20° to -30°	-28.4°
Nitrogen content (dry basis)	2.5%-3.5%	3.4%
pH value	6.0-7.0	6.3
Chloride	≤0.5%	Pass
Sulfate	≤0.24%	Pass
Loss on drying	≤10.0%	9.55%
Residue on ignition	20.0%-30.0%	25.90%
Solvent residue	≤0.5%	0.19%
Granularity	100% passing 80 mesh	Pass
Lead (mg/kg)	≤0.5	<0.04
Arsenic (mg/kg)	≤0.1	<0.04
Mercury (mg/kg)	≤0.1	<0.01
Total bacterial count (CFU/g)	≤1,000	Pass
Yeasts and molds (CFU/g)	≤100	Pass
E. coli	Negative	Negative
Salmonella species	Negative	Negative
Staphylococcus aureus (/25 g)	Negative	Negative
Assay (calculated on dried basis)	≥95.0%	96.80%
Packaging specifications	25 kg/drum	
Storage method	Cool, dry and sealed	
Shelf life	2 years	