

Specification of CHONDROITIN SULFATE

Product: CHONDROITIN SULFATE

Type: Food Grade

Package: 25KG Drum

ITEM	SPECIFICATION	TEST METHOD
Properties (physical):		
Appearance	Off white to creamy powder (Visual)	USP42 -- <695>
Bulk Density	NLT0.55g/ml	USP42 -- <616>
As Tapped Density	Meets the requirements of USP42	USP42 -- <616>
Analytical Properties:		
Assay	More than 90%	HPLC
Identification		
A: Infrared Absorption	Meets the requirement	A: USP42 -- <197K>
B: Tests for Sodium	Meets the requirement	B: USP42 -- <191>
Absorb	<0.35a.u. (5.0% Water Solut.-420nm)	USP42 -- <197>
Specific Rotation $[\alpha]_D^{20}$	minus20.0°~ minus30.0°	USP42 -- <781S>
pH (1%H ₂ O solution.)	5.5-7.5	USP42 -- <791>
Loss on Drying	NMT10%	USP42 -- <731>
Residue on Ignition	NMT20%-30% (dry base)	USP42 -- <281>
Chloride (Cl)	NMT 0.5%	USP42 -- <221>
Sulfate	NMT 0.24%	USP42 -- <221>
protein	NMT 5.0%	USP42
Heavy Metals	NMT 20 ppm	USP42 -- <231> II
Iron (fe)	NMT 10 ppm	USP42 -- <241>
Lead	NMT 0.5 ppm	GB/T 5009.12(II)
Arsenic (As)	NMT 3.0 ppm	GB/T 5009.11(I)
Mercury	NMT 0.5 ppm	GB/T 5009.17(I)
Organic volatile impurities	Meets the Requirements	USP42 -- <467> I
Electrophoretic purity	≤1%	USP42
Microbial:		
Total Bacteria Count	NMT 1,000 cfu/g	USP42 -- <2021>
Yeast & Mold	NMT 100 cfu/g	USP42 -- <2021>
E. Coli	Negative	USP42 -- <2022>
Salmonella	Negative	USP42 -- <2022>
Staphylococcus Aureus	Negative	USP42 -- <2022>

Shelf Life: 36 months

Meet USP standard