

Certificate of Analysis

Product name: Sodium Hyaluronate

Grade: Food Grade

Batch No.:TCM20190827SHFG

Source: Fermented via Streptococcus zooepidemicus

Production Date: Aug. 27th, 2019

Expiry Date:Aug. 26th, 2021

Item	Standard	Result
Appearance	White powder	White powder
Glucuronic Acid	≥44.5%	44.6%
Sodium Hyaluronate	≥ 92%	92.36%
Transparency (0.5% solution, 25 °C)	T550nm≥99.0%	Complied
PH value (0.5% solution, 25°C)	5.0~8.5	6.60
Molecular Weight	800,000.00 Daltons	800,000.00 Daltons
Protein	≤0.1%	0.09%
Loss on drying	≤10%	6.0%
Residue on Ignition	≤20.00 %	11.65%
Chlorides	≤ 0.5%	0.3%
Iron	≤ 80ppm	<80ppm
Heavy metal	≤10ppm	<10ppm
Arsenic	≤2ppm	<2ppm
Bacteria Count	≤100CFU/G	<100CFU/G
Molds & Yeast	≤10CFU/g	<10CFU/G
Staphylococcus aureus	Negative	Negative
Pseudomonas aeruginosa	Negative	Negative
Hemolysis	Negative	Negative
Viable Hemolytical Streptococci	Negative	Negative
Bacterial Endotoxin	≤0.5IU/ mg	Complied
Conclusion	Complied with EP4.0	
Shelf Life	Two Years since manufacturing date	
Packing	25kg/fiber drum with double plastic bags inside	
Manufacturer	TCM Adaptogen Warehouse Co., Limited	

Analyzer: Zhao Li

Verifier: Zhang Yi