

PH001

QINGDAO HAOSAIL SCIENCE CO., LTD

Product Name	HYALURONIC ACID Sodium Salt HW 1500 kDa		
Batch No.	HA20251107	Retest Date	Nov. 04. 2028
Manufacture Date	Nov. 05. 2025	Test Date	Nov. 12. 2025
Test Items	Requirements	Test Results	
Appearance	White powder or granules	Complied	
Infrared Absorption	The infrared absorption spectrum should be consistent with the control spectrum	Complied	
Sodium salt identification reaction	Should show the positive reaction of sodium salt	Complied	
Smell	Negative	Negative	
Particle size	80mesh	Complied	
Glucuronic acid content (%)	≥44.5	46.95	
Sodium hyaluronate content (%)	≥92.0	97.08	
Average molecular weight	(1.5-1.5)*10 ⁶ Dalton	1.5044*10 ⁶ Dalton	
Intrinsic viscosity(dL/g)	Measured values	23.69	
Kinematic viscosity(mm ² /s)	Measured values	48.50	
Absorbance(5mg/ml, Water Solution, 280mm)	≤0.25	0.230	
Transparency (%)	≥99.0	100	
Dry weight loss (%)	≤10.0	7.25	
PH(1mg/ml, Water Solution, 25℃)	6.0-8.0	6.77	
Heavy metal (in lead, mg/kg)	≤10	<10	
Protein content (%)	≤0.10	0.049	
Residue on ignition (%)	≤18	16.25	
Ash content (%)	≤13.0	12.12	
Bulk density (g/cm3)	Measured values	0.311	
Tap density (g/cm ³)	Measured values	0.422	
Pb(Pb, mg/kg)	≤1	<1	
As (As, mg/kg)	≤2	<2	
Hg (Hg, mg/kg)	≤0.1	<0.1	
Cr (Cr, mg/kg)	≤1	<1	
Total Colony Number (CFU/g)	≤100	<10	
Fungi and Yeasts (CFU/g)	≤100	<10	
Staphylococcus Aureus (CFU/g)	Negative	Negative	
Bacterial endotoxin (EU/mg)	≤0.5	<0.5	
Viable Hemolytic Streptococci	Negative	Negative	
Pseudomonas Aeruginosas (CFU/g)	Negative	Negative	
Decision conclusion	Qualified		

PH-001-100

306781

18/12/25

FWS Pro 3

APROBADO