


QINGDAO HAOSAIL SCIENCE CO., LTD

Product Name	Food Grade Sodium Hyaluronate		
Batch No.	HA240115	Retest Date	2027. 1. 14
Manufacture Date	2024. 1. 15	Test Date	2024. 2. 26

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	47.03
Sodium hyaluronate content (%)	≥92.0	97.24
Average molecular weight	<0.6*10 ⁶ Dalton	0.5002*10 ⁶ Dalton
Intrinsic viscosity(dL/g)	Measured values	10.04
Kinematic viscosity(mm ² /s)	Measured values	15.65
Absorbance(5mg/ml, Water Solution, 280mm)	≤0.25	0.071
Transparency (%)	≥99.0	100
Dry weight loss (%)	≤10.0	7.75
PH(1mg/ml, Water Solution, 25°C)	6.0-8.0	6.37
Heavy metal (in lead, mg/kg)	≤10	<10
Protein content (%)	≤0.10	0.037
Residue on ignition (%)	≤18	15.91
Ash content (%)	≤13.0	12.01
Bulk density (g/cm ³)	Measured values	0.467
Tap density (g/cm ³)	Measured values	0.571
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

For and on behalf of
QINGDAO HAOSAIL SCIENCE CO., LTD
 青岛浩赛生物科技有限公司

 Authorized Signature

Decision conclusion	Qualified
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 23-05-24