



QINGDAO HAOSAIL SCIENCE CO.,LTD

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CERTIFICATE OF ANALYSIS

Product Name	Hyaluronic acid HW
Batch Number	2022011819
Lot Quantity	75KG
MFG.Date	Jan.06.2022
EXP.Date	Jan.05.2025
Country of Origin	China

Items of Analysis	Specification	Results
Apparance	White or almost white powder or granule	Conform
Glucuronic acid	≥44.5%	47.1%
Sodium Hyaluronate	≥92.0%	97.4%
PH	5.0~8.5	6.8
Transparency	≥99.0%	99.80%
Molecular weight, Da	As per request	1500KDa
Intrinsic Viscosity	Measured value	23.6dL/g
Protein	≤0.10%	0.05%
Bulk density	Measured value	0.28g/cm ³
Tap density	Measured value	0.42g/cm ³
Residue on ignition	≤ 20.0%	12.40%
Loss on drying	≤10.0%	7.10%
Heavy metals (Pb)	≤ 20ppm	< 10ppm
Bacteria count	≤ 100cfu/g	Conform
Mold and yeast	≤50cfu/g	Conform
Pseudomonas aeruginosa	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(s)

Conclusion
 Storage

This batch of product conforms to the Specification.
 Store in cool, dry place and away from strong light and heat