

HaoSail

QINGDAO HAOSAIL SCIENCE CO.,LTD

B3, 17# Songyuan Road, Qingdao High-Tech Zone, 266109, China

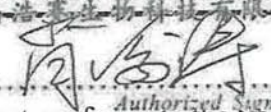
Tel: +86-532-55679909 Fax: +86-532-5579905

CERTIFICATE OF ANALYSIS

Product Name	Hyaluronic acid HW
Batch Number	22041901
Lot Quantity	50KG
MFG.Date	Apr.19.2022
EXP.Date	Apr.18.2024
Country of Origin	China

Items of Analysis	Specification	Results
Appearance	White or almost white powder or granule	Conform
Glucuronic acid	≥44.5%	46.8%
Sodium Hyaluronate	≥92.0%	96.7%
PH	5.0~8.5	6.8
Transparency	≥99.0%	99.90%
Molecular weight, Da	As per request	1560KDa
Intrinsic Viscosity	Measured value	24.4dL/g
Protein	≤0.10%	0.04%
Bulk density	Measured value	0.31g/cm ³
Tap density	Measured value	0.46g/cm ³
Residue on ignition	≤20.0%	12.30%
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	Conform

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

Ref PT-25148-777 pda

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