



# DALIAN HANDOM CHEMICALS CO.,LTD.

Add.: RM702, Unit 1, Building 21, Liuhe Road, Ganjingzi Dist, Dalian, Liaoning, China  
E-mail: info@handom-chem.com Web.: www.handom-chem.com

## Certificate of Analysis

**Product Name:** Chitosan Oligosaccharide

**CAS No.:** 148411-57-8

**Molecular Formula:**  $(C_{12}H_{24}N_2O_9)_n$

**Batch No.:** HDC20230523

**Batch Quantity:** 1000kg

**Manufacturing Date:** May 23<sup>rd</sup>, 2023

**Retest Date:** May 22<sup>nd</sup>, 2025

**Report Date:** May 24<sup>th</sup>, 2023

Test Items	Specifications	Test Results
Appearance	Yellow or light yellow powder solid, no smell, no visible impurities	Conforms
Molecular Weight	Not more than 3000 Da	<3000 Da
Content	Not less than 90.0%	90.7%
Viscosity	Meets the requirements	5 mpa·s
Moisture	Not more than 10%	5.27%
Ash Content	Not more than 2%	1.85%
pH Value	5.0 ~ 7.0	5.25
Acid-insoluble substance	Not more than 2.0%	<2.0%

**Conclusion:** The testing results of this batch are complied with the Enterprise Standard.

**Storage Conditions:** Preserved in unopened original containers in a cool dry place; kept away from direct sunlight, heat and moisture.