

## CERTIFICATE OF ANALYSIS

**Product Name:** Chitosan  
**Grade:** Food, Medical, Medical Research  
**Source Material:** Plant-based, Mushrooms  
**CAS No.:** 9012-76-4  
**Storage:** <25°C, cool dry environment, well-sealed  
**Shelf Life:** 36 months

**Product No.:** C-M-85-401132  
**Lot No.:** 251813  
**Quantity:** 1,000Kg  
**Manufacturer Date:** March 25, 2020  
**Testing Date-1:** April 5, 2020  
**Expiry Date:** March 25, 2023

Test Item	Specification	Results
Appearance	White to light yellow powder	Conforms
Deacetylation (%)	≥ 90.0	90.1%
Molecular Weight (kDa)	250 - 300	Conforms
pH	7 - 8	8.0
Mesh size/sieve analysis	100% pass 80 mesh	Conforms
Moisture content (%)	≤10	6.2
Ash content (%)	≤1.0	0.45
<b>Heavy metals (ppm)</b>	≤20.0	9.50
Pb (ppm)	≤1.0	<1.0
As (ppm)	≤1.0	<1.0
Cd (ppm)	≤0.5	Negative
Hg (ppm)	≤0.5	Negative
<b>Microbiology</b>		
Total plate count (cfu/g)	≤1000	181
Mold and yeast (cuf/g)	≤100	55
E. Coli (MPN/100g)	Negative	Negative
Salmonella	Negative	Negative

Date: April 5, 2020

Testing Supervisor: Nicole Parks -  
 Manager Quality Assurance & Control

Signed: \_\_\_\_\_




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