

Certificate of Analysis

Name of Product : Chitosan - Water Soluble (Powder) – Agaricus Bisporus

CAS No. : 148411-57-8

Batch / Lot No. : PRM/CH COS-LT/FG/03/09-2026

Molecular Weight. : 1.6 kDa

Date of Mfg. : September 2026

Date of Exp. : August 2029

Manufactured by : Promecens Entosystems Private Limited

Sr. No.	Test / Parameter	Specification	Result
1.	Appearance	Light brown / cream / off-white, free-flowing powder	Cream-colored to light brown, free-flowing powder
2.	Degree of Deacetylation	≥ 95%	98.72 %
	Purity	98.0 - 99.5 %	99.43%
3.	Solubility (1 g in 100 mL DI water; magnetically stirred 1-2 h at RT; do not heat)	Completely soluble in water	Passes
4.	Zeta Potential (mV)	35-125 mV	60 mV
5.	pH (1% solution in DI water, 25-30°C)	2.0 - 5.5	4.48
6.	Viscosity (1% aq. solution, 30°C)	0.10 - 100 cSt	6.59 cSt
7.	Heavy metals (as Pb)	NMT 10 ppm	NIL
8.	Dissolved Soluble fraction in DM water (Dilution Factor 1/10)	8.0 - 10.0 % (Measured Concentration * 10)	9.69 % * 10 = 96.9%
9.	Insoluble in water	NMT 1.0 %	0.01 %

Remarks:

The product meets all required quality specifications and has passed comprehensive quality testing for solubility, pH, viscosity, and appearance.

Authorized Signatory:

Promecens Entosystems Private Limited