

Certificate of Analysis

Promecens Carboxymethyl Chitosan

Product Name: Carboxymethyl Chitosan (CMCS) – Agaricus Bisporus

CAS No.: 83512-85-0

Molecular Weight (Avg.): 260 kDa (Customizable)

Batch No.: PRM/CH ACT/CM/03/09-2026

Date of Manufacture: Jan 2026

Expiry Date: Dec 2029

Manufacturer: Promecens Entosystems Private Limited

Analytical Test Results

Sr. No.	Test Parameter	Specification	Result
1.	Appearance	Light brown or yellow to dark color	Off White powder
2.	Odor	Odorless	Odorless
3.	Solubility (in water)	Soluble	Passes
4.	Purity (on dry basis)	95 – 99%	99.32%
	Degree of Deacetylation	>95%	98.6%
	Zeta Potential	30-55 mV	47.56 mV
5.	Viscosity (cS, 1% solution at 25°C)	20-50 cps	45 cps
6.	Insoluble Substances	≤ 1.0%	0.11%
7.	pH (1% aqueous solution)	6.0-10.0	8.3
8.	Heavy Metals (as Cadmium, Mercury ppm)	≤ 10 ppm	Not detected (NIL)
9.	Degree of Substitution	0.3-0.95	0.76

Remarks

The batch **meets all internal specifications** for Carboxymethyl Chitosan, confirming its suitability for use in pharmaceutical, biomedical, agricultural, and cosmeceutical applications.

Issued on behalf of Promecens Entosystems Private Limited