

## Certificate of Analysis

### Promecens Carboxymethyl Chitosan

**Product Name:** Carboxymethyl Chitosan (CMC)  
**CAS No.:** 83512-85-0  
**Molecular Formula:**  $(C_6H_{11}NO_4)_n$   
**Molecular Weight (Avg.):**  $(249.12)_n$   
**Batch No.:** CMC/01/2025  
**Date of Manufacture:** June 2025  
**Expiry Date:** May 2028  
**Manufacturer:** Promecens Entosystems Private Limited

### Analytical Test Results

Sr. No.	Test Parameter	Specification	Result
1	Appearance	Light brown or yellow to dark color	Light brown or yellow
2	Odor	Odorless	Odorless
3	Solubility (in water)	Soluble	Passes
4	Purity (on dry basis)	95 – 99%	98.32%
5	Viscosity (cS, 1% solution at 25°C)	1 – 20 cS	2.3 cS
6	Insoluble Substances	≤ 1.0%	0.12%
7	pH (1% aqueous solution)	3.0 – 6.0, 7.0-10.0	4.2, 8.5
8	Heavy Metals (as Pb, ppm)	≤ 10 ppm	Not detected (NIL)

### Remarks

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

### Authorized Signatory:

Abhinav Chauhan  
 Quality Assurance  
 Issued on behalf of Promecens Entosystems Private Limited

