

## Certificate of Analysis

### Promecens Trimethyl Chitosan (TMC)

**Product Name:** N,N,N-Trimethyl Chitosan (TMC)

**CAS No.:** 52349-26-5

**Molecular Weight (Avg.):** 295.67 kDa (Customizable)

**Batch No.:** TMC/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 Yellow	Light-yellow powder
2	Odor	Odorless	Odorless
3	Solubility	Freely soluble in water & acid	Passes
4	Degree of Substitution	≥ 50%	58.6%
5	Purity (on dry basis)	≥ 95%	99.09%
6	Viscosity (1% solution, 25°C)	2 – 10 cP	3.1 cP
7	pH (1% aqueous solution)	5.0 – 7.5	6.1
8	Residue on Ignition	≤ 1.0%	0.35%
9	Heavy Metals (as Pb, ppm)	≤ 10 ppm	NIL
10	Microbial Count (TVC, CFU/g)	≤ 1000	<100

Batch meets all technical specifications for TMC, suitable for mucosal drug delivery systems, biopolymer films, and advanced cosmeceutical formulations

*On behalf of Promecens Entosystems Pvt. Ltd.*