

Certificate of Analysis

Promecens Trimethyl Chitosan (TMC) – Agaricus Bisporus

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

CAS No.: 52349-26-5

Molecular Weight (Avg.): 290 kDa (Customizable)

Batch No.: PRM/CH TMC/03/09-2026

Date of Manufacture: September 2026

Expiry Date: August 2029

Manufacturer: Promecens Entosystems Private Limited

Analytical Test Results

Sr. No.	Test Parameter	Specification	Result
1.	Appearance	Pale Yellow or off-white granulated powder	White granular powder
2.	Odor	Odorless	Odorless
3.	Moisture Content (%)	< 10%	9.45%
4.	Solubility (in water)	Freely soluble	Passes
5.	Purity (on dry basis)	≥ 95%	99.54%
	Degree of Deacetylation	>95%	98.12%
	Zeta Potential	30-55 mV	43.45 mV
6.	Viscosity (1% solution, 25°C)	10-130 cps	52 cps
7.	Mesh Size	>40	60
8.	pH (1% aqueous solution)	4.5 – 7.0	6.67
9.	Ash Content	≤ 1.0%	0.56%
10.	Heavy Metals (as Pb, ppm)	≤ 10 ppm	NIL

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.