

Certificate of Analysis

Promecens Quaternary Chitosan – Agaricus Bisporus

Product Name: Quaternary Chitosan (N,N,N-Trimethylated Chitosan Derivative)

CAS No.: 51395-94-1

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

Batch No.: PRM/CH QCh/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%	9.3%
4.	Solubility (in water)	Freely soluble	Passes
5.	Degree of Quaternization	≥ 96%	98.56%
6.	Purity (on dry basis)	≥ 95%	99.23%
	Degree of Deacetylation	>95%	97.8%
	Zeta Potential	30-55 mV	43.45 mV
7.	Viscosity (1% solution, 25°C)	10-130 cps	47 cps
8.	Mesh Size	>40	60
9.	pH (1% aqueous solution)	4.5 – 7.0	6.5
10.	Ash Content	≤ 1.0%	0.63%
11.	Heavy Metals (as Pb, ppm)	≤ 10 ppm	NIL

Product conforms to specification for pharmaceutical, agricultural, and cosmeceutical-grade quaternized chitosan.

On behalf of Promecens Entosystems Pvt. Ltd.