

Certificate of Analysis

Name of Product : Chitosan – Acid Soluble, Extra-Pure – Lenzites Betulina

CAS No. : 9012-76-4

Batch / Lot No. : PRM/CHT-AS/01/01-2026

Molecular Weight. : 170 kDa

Date of Mfg. : January 2026

Date of Exp. : December 2028

Manufactured by : Promecens Entosystems Private Limited

Sr. No.	Test / Parameter	Specification	Result
1	Appearance	Light brown / cream / off-white, free-flowing powder	Off white to Cream-colored, free-flowing powder
2	Degree of Acetylation	≥ 90%	92.54 %
	Purity	98.0 - 99.5 %	98.70%
3	Solubility (1 mL Acetic Acid in 99 mL DI water; magnetically stirred 1-2 h at RT; do not heat)	Completely soluble	Passes
	Zeta Potential	+30 - 40 mV	+37.45 mV
4	pH (1% solution in DI water, 25-30°C)	2.0 - 5.5	3.57
5	Viscosity (1% aq. solution, 30°C)	200-400 cps	310 cps
6	Heavy metals (as Pb)	NMT 10 ppm	2 ppm
7	Soluble fraction in DM water	8.0 - 10.0 %	8.57 %

Remarks:

The product meets all required quality specifications and has passed comprehensive quality testing for solubility, pH, viscosity, and appearance.

Authorized Signatory:

Promecens Entosystems Private Limited