

Certificate of Analysis

Name of Product : Chitosan – Water Soluble, Extra-Pure – Lenzites Betulina
CAS No. : 9012-76-4
Batch / Lot No. : PRM/CHT-WS/01/01-2026

Molecular Weight. : 45 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%	93.23 %
	Purity	98.0 - 99.5 %	98.45%
3	Solubility (1 g in 99 mL DI water; magnetically stirred 1-2 h at RT; do not heat)	Completely soluble	Passes
	Zeta Potential	+30 - 40 mV	+37.34 mV
4	pH (1% solution in DI water, 25-30°C)	2.0 - 5.5	3.57
5	Viscosity (1% aq. solution, 30°C)	20-100 cps	60 cps
6	Heavy metals (as Pb)	NMT 10 ppm	1 ppm
7	Soluble fraction in DM water	8.0 - 10.0 %	9.34 %

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