www.nanoshel.com I sales@nanoshel.com

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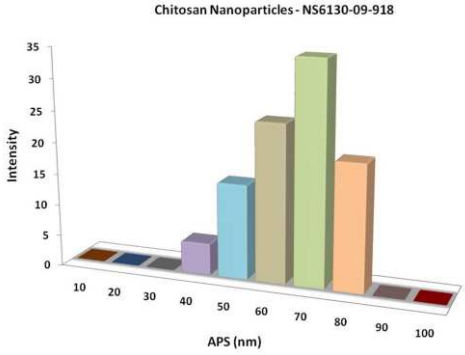
Chitosan Nanoparticles

NS6130-09-918

Chitosan is a modifed biopolymer which is derived by partial deacetylation of chitin. It comprised of alternating units of linked N-acetyl glucosamine and glucosamine units. Chitosan nanoparticles are white, hard, inelastic and nitrogenous polysaccharide. Chitosan nanoparticles have multifaceted applications because of its nontoxicity, biodegradability and antimicrobial properties. It is utilized in biomedical industries, agriculture, genetic engineering, food industry, environmental pollution control, water treatment, paper manufacture, photography.

Chitosan is widely utilized in food and bioengineering industries for encapsulation of active food ingredients, enzyme immobilization. It is also used as a carrier for controlled drug delivery, in agriculture as a plant growth promoter. Chitosan nanoparticles are also a defense elicitor and an antimicrobial agent.



Purity
>99%
CAS No.
9012-76-4

APS:
80-100nm

Technical Specification:

Molecular Formula	Molecular Weight	Specific Gravity
C6H11NO4	161g/mol	1.4

Chemical Composition

Product	Weight Percent (nominal)	
		Other Metal
Chitosan Nanoparticles	>99%	8000 ppm

Applications:

- ✓ Used in drug delivery systems
- ✓ Utilized in packaging foods and in dentistry.
- ✓ Used as an additive in antimicrobial textiles for producing clothes for healthcare
- ✓ Used as antimicrobial agent
- ✓ Used as a wound-healing material

ISO 9001:2015
CERTIFIED COMPANY

INTELLIGENT MATERIALS PVT LTD
Derabassi
Punjab (140507)
INDIA
+91 9779 550077, 9779238252

NANOSHEL UK LIMITED
Chapel House,
Chapel St Cheshire,
CW12 4AB United Kingdom
+44 1782 454 144, +44 74 105 48802

NANOSHEL LLC
3422 Old Capitol Suit
1305 Wilmington DE - 19808
United States
+1 646 470 4911