

Product Datasheet

GP5053 - Chitosan (1000 - 2000 cps);

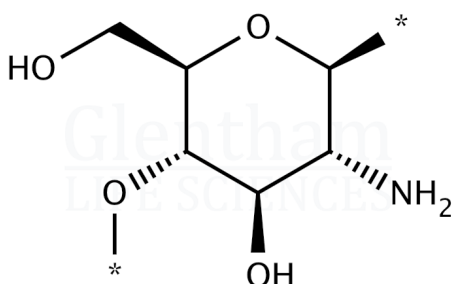
high molecular weight

Product Details

| | |
|--------------------|--|
| Product Name | Chitosan (1000 - 2000 cps); high molecular weight |
| Glenthams Code | GP5053 |
| CAS Number | 9012-76-4 |
| EINECS | 618-480-0 |
| MDL Number | MFCD00161512 |
| Related Categories | APIs, Carbohydrates, Biochemicals, Natural Products, Polysaccharides, Oligosaccharides, Chitin & Chitosan, Cosmetic Raw Materials |

Structure

Molecular Weight : 1,500,000 (avg.)
Molecular Formula : $[C_6H_{11}NO_4]_n$



Storage

Recommended storage temperature: +20°C.

Hazards and Transport

Not classified as hazardous under CLP.

Not classified as dangerous for transport.

Glenthams Product Specification

| | |
|-----------------------------|---|
| Physical Description | : White to light-tan, or light-yellow powder |
| Degree of Deacetylation | : $\geq 90.0\%$ |
| Ash | : $\leq 1.0\%$ |
| Viscosity | : 1000 - 2000 cps (1% in 1% acetic acid, 20°C) |
| Water | : $\leq 8.0\%$ |
| Solubility (in acetic acid) | : $\geq 99\%$ |
| pH | : 6.0 - 8.0 (1%, 20°C) |
| Arsenic (As) | : $\leq 1\text{ppm}$ |
| Lead (Pb) | : $\leq 0.5\text{ppm}$ |
| Mercury (Hg) | : $\leq 0.1\text{ppm}$ |
| Particle Size | : ≤ 100 mesh |
| Microbiological Counts | : E. coli: ≤ 3 MPN/g : Salmonella spp.: Not detected in 25g |
| Total Yeast and Mould Count | : $\leq 100\text{CFU/g}$ |
| Total Plate Count | : $\leq 1000\text{CFU/g}$ |
| Version | : v1.3 |

About Chitosan (1000 - 2000 cps); high molecular weight

Chitosan is a polysaccharide comprised of linked D-glucosamine and N-acetyl-D-glucosamine units. It is produced by the deacetylation of chitin, a naturally occurring polysaccharide. Chitosan is commercially used in agriculture as a biopesticide but has potential applications in the biomedical field due to its antibacterial properties. This product is derived from shrimp shell.

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