

Product Specification Sheet

Product	BIOMEDICAL CHITOSAN
Batch n°	2024_001
Production date	April 2024
Storage	<25°C, dry, closed (hydrophilic product)
Shelf life	Estimated, 3 years in the conditions above
Raw material	European Spiny Lobster*, <i>Palinurus elephas</i> , molts
Country of origin	Europe
Usage	non-human research use only

Parameter	Method	Specification
Identification	FTIR Assay	Comply with reference
Solid appearance	Visual	White to off white fine powder
Solution appearance	Visual	Clear / colourless
Degree of deacetylation	NMR	> 81%
Molecular weight (Mw)	GPC-SEC	> 390 kDa
Distribution of Mw	GPC-SEC	1.9
Ashes	USP Standard ≤1%	≤1%
Moisture content	USP Standard ≤5%	2.8 %
Protein content	USP Standard ≤0.2%	0 %
Heavy metals Pb, Hg, Cd, As	ICP-MS ≤ 10 ppm	≤ 1 ppm
Endotoxins	<100 EU/g endotoxin LAL	<100
Pseudomonas & Staphylococcus	USP Standard - Absence	Comply
Aerobic microbes	USP Standard <10E3 cfu/g	<5 cfu/g
Yeast	USP Standard <10E2 cfu/g	<5 cfu/g

*Sustainably farmed European spiny lobsters, organically grown with no antibiotics, hormones or chemicals.

Note: Cruelty-Free product - Molts (raw material) are obtained without killing or harming the animal as molts are naturally shed by the animal as they grow.