

## Specification Sheet **Chitoink**

Product description	Chitoink is a bioink based on chitosan that is a cationic polysaccharide extensively used in research related to cartilage tissue engineering. Formulated with a glucomannan thickener and a glycerol phosphate stabilizer to provide good printability and biocompatibility. Chitoink crosslinks easily with the included TPP Crosslinking Agent. For description on how to mix with cells, bioprint and crosslink, follow the <b>Bioprinting Protocol</b> .		
Intended use	Biocompatible material for 3D bioprinting, <i>Research Grade.</i> For research use ONLY. Not intended for <i>in vitro</i> diagnostics or <i>in vivo</i> uses. Not intended for administration in humans or animals. Produced under sterile and aseptic conditions.		
Product number	IKE10000		
Shelf life	Minimum 7 weeks, expiration date stated on package.		
Storage and handling	Store at 4-8°C. DO NOT FREEZE. Avoid temperature fluctuations. Ensure that the bioink container is capped prior to storage to prevent drying.		
Safety	Handle in accordance with good hygiene and laboratory safety practices. Read <b>Safety Data Sheet</b> for more information regarding ingredients and potential hazardous compounds.		
Related	Bioprinting Protocol, Mixing with cells Protocol as well as Safety		
documents	Data Sheet can be downloaded from our website <u>https://cellink.com/ product/chitoink/</u> or scan the QR code below.		





Property	Specification	Method
Appearance	Semi translucent gel	Visual inspection.
Sterility	Sterile	Tested for the presence of bacteria, fungi and yeast. Tested on raw materials.
Endotoxin level	<20 EU/mL	Limulus Amoebocyte Lysate assay, Pharmacopoeia 2.6.14 "Bacterial endotoxins": Method D, accredited by SWEDAC. Accreditation Certification 1240: ISO 15189, 2010-11-22. Tested on raw materials.
рН	6.5-7.4	Assessed with pH paper.
Viscosity	200-550 Pa∙s	Tested using rotational 20 mm plate-plate HR-2 TA Instruments Rheometer, assessed at 1 s <sup>-1</sup> . Flow sweep parameters: shear rate from 0.001 s <sup>-1</sup> to 100 s <sup>-1</sup> , 25°C.