

Specification Sheet

CELLINK LAMININK

Product description	The CELLINK LAMININK bioinks include CELLINK LAMININK 111, CELLINK LAMININK 121, CELLINK LAMININK 411, CELLINK LAMININK 521 and CELLINK LAMININK+. These bioinks have been developed for improving maintenance and survival of tissue. The CELLINK LAMININK bioinks can be easily crosslinked with the included Crosslinking Agent. Culture in medium supplemented with calcium to maintain the structure for longer culture periods. For description on how to mix with cells, bioprint and crosslink, follow the Bioprinting Protocol .
Intended use	Biocompatible material for 3D bioprinting, Research Grade . 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	IK12L111/121/411/521/600
Shelf life	2 months, 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 Safety Data Sheet for more information regarding ingredients and potential hazardous compounds.
Related documents	Bioprinting Protocol as well as Safety Data Sheet can be downloaded from our website https://cellink.com/product-tag/cellink-laminink/ or scan the QR code below.



Property	Specification	Method
<i>Appearance</i>	Opaque gel	Visual inspection.
<i>Sterility</i>	Sterile	Tested for the presence of bacteria, fungi and yeast. Tested on raw materials.
<i>Endotoxin level</i>	<40 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
<i>Cell viability</i>	≥80% live cells	3D cell culture performed with mesenchymal stem cells for 7 days. Based on routine QC performed every fourth month.
<i>pH</i>	6.5-7.4	Assessed with pH meter.
<i>Viscosity</i>	3-20 000 Pa·s	Tested using rotational 20 mm plate-plate HR-2 TA Instruments Rheometer. Flow sweep parameters: shear rate from 0.002 s ⁻¹ to 500 s ⁻¹ , 25°C.