

## Specification Sheet

# GelXA LAMININK

<b>Product description</b>	GelXA LAMININK bioinks include GelXA LAMININK 111, GelXA LAMININK 121, GelXA LAMININK 411, GelXA LAMININK 521 and GelXA LAMININK+. These bioinks have been developed to create tissue-specific environment with laminin proteins. GelXA LAMININK bioinks offer dual-crosslinking capabilities through photocuring and treatment with the included Crosslinking Agent. For description on how to mix with cells, bioprint and crosslink, follow the <b>Bioprinting Protocol</b> .
<b>Intended use</b>	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.
<b>Product number</b>	IK3X2115/119/123/127/131
<b>Shelf life</b>	Minimum 7 weeks, expiration date stated on package.
<b>Storage and handling</b>	Store at 4-8°C. DO NOT FREEZE. Avoid temperature fluctuations. Ensure that the bioink container is capped prior to storage to prevent drying. Protect from light.
<b>Safety</b>	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.
<b>Related documents</b>	Bioprinting Protocol as well as Safety Data Sheet can be downloaded from our website <a href="https://cellink.com/product-tag/gelx-laminink/">https://cellink.com/product-tag/gelx-laminink/</a> or scan the QR code below.



Property	Specification	Method
<i>Appearance</i>	Semi-translucent gel	Visual inspection.
<i>Sterility</i>	Sterile	Tested for the presence of bacteria, fungi and yeast. Tested on raw material.
<i>Endotoxin level</i>	<30 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 material.
<i>pH</i>	6.5-7.4	Assessed with pH paper.
<i>GelMA degree of methacrylation</i>	45-55%	<sup>1</sup> H NMR performed at room temperature, acquired with a spectral width of 8013 Hz, or 16 ppm, averaged over 64 scans using 64K time domain points. Acrylate peaks present at 5.4 and 5.6, methyl at 1.9 ppm.
<i>Viscosity</i>	70-330 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> , 23°C.