

Specification Sheet

GelXA LAMININK

Product description

GelXA LAMININK bioinks include GelXA LAMININK 111, GelXA LAMININK 121, GelXA LAMININK 411, GelXA LAMININK 521. These bioinks have been developed to create tissue-specific environment with laminin proteins. GelXA LAMININK is based on GelMA and incorporates xanthan gum (purified from endotoxins) and alginate to enhance printability, ease-of-use and stability post-printing. 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 **Bioprinting Protocol**.

Intended use

Biocompatible material for 3D bioprinting, **Research Grade**. For research use ONLY. Not intended for in vitro diagnostics or in vivo uses. Not intended for administration in humans or animals. Produced under sterile and aseptic conditions.

Product number

IK3X2115/119/123/127/131

Shelf life

Minimum 1.5 months, expiration date stated on package.

Storage and handling

Store and handle at 2-10°C. **DO NOT FREEZE.**
Avoid temperature fluctuations.
Protect from light both during storage and handling of the product.
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://www.cellink.com/product/gelxa-laminink-111/>
<https://www.cellink.com/product/gelxa-laminink-121/>
<https://www.cellink.com/product/gelxa-laminink-411/>
<https://www.cellink.com/product/gelxa-laminink-521/>

Property	Specification	Method
<i>Appearance</i>	Semi-translucent gel	Visual inspection.
<i>Sterility</i>	Sterile	Raw materials tested for the presence of bacteria, fungi and yeast with method adapted from Ph Eur 2.6.1 and USP <71>. Produced under aseptic conditions from sterilized materials.
<i>pH</i>	6.5-7.4	Assessed with pH paper.
<i>GelMA degree of methacrylation</i>	45-65%	Determined by quantifying free amines with TNBSA and comparing to the unmodified precursor.
<i>Viscosity</i>	70–250 Pa·s at 1 s ⁻¹ *	Tested using HR-10 TA Instruments Rheometer with 20 mm plate-plate geometry. Steady-state rotational flow sweep: 23°C, shear rate from 0.001 s ⁻¹ to 200 s ⁻¹ . * Characteristic values, not tested on every batch.