

## Specification Sheet

# CELLINK FIBRIN

<b>Product description</b>	CELLINK FIBRIN bioink includes fibrinogen that after enzymatic crosslinking with thrombin has both <i>in situ</i> fibrin and fibrinogen to provide a more physiological wound healing environment. The bioink crosslinks easily with the included Crosslinking Agent supplemented with thrombin. 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 <b>Bioprinting Protocol</b> .
<b>Intended use</b>	Biocompatible material for 3D bioprinting, <b>Research Grade</b> . 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>	IK130063
<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.
<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/cellink-fibrin/">https://cellink.com/product/cellink-fibrin/</a> 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>pH</i>	6.5-7.4	Assessed with pH paper.
<i>Viscosity</i>	30-120 Pa·s	Tested using rotational 20 mm plate-plate HR-2 TA Instruments Rheometer, assessed at $1 \text{ s}^{-1}$ . Flow sweep parameters: shear rate from $0.001 \text{ s}^{-1}$ to $100 \text{ s}^{-1}$ , $25^\circ\text{C}$ .