

## Specification Sheet

# CELLINK FIBRIN

### Product description

CELLINK FIBRIN bioink includes fibrinogen that after enzymatic crosslinking with thrombin has both in situ fibrin and fibrinogen to provide physiological wound healing environment. The bioink crosslinks easily with the included  $\text{Ca}^{2+}$ -containing Crosslinking Agent supplemented with thrombin. To maintain the structure for longer cell culture periods, supplement cell media with calcium as well. 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 aseptic conditions.

### Product number

IKC20600

### Shelf life

Minimum 3 months, expiration date stated on package.

### Storage and handling

Store and handle at 2-10°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/cellink-fibrin/>.

Property	Specification	Method
<i>Appearance</i>	White 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.
<i>pH</i>	6.5-7.4	Assessed with pH paper.
<i>Viscosity</i>	2.6-7.5 kPa·s at 0.01 s <sup>-1</sup> ; 1.0-1.9 Pa·s at 200 s <sup>-1</sup> *	Tested using HR-10 TA Instruments Rheometer with 20 mm plate-plate geometry. Steady-state rotational flow sweep: 25°C, shear rate from 0.001 s <sup>-1</sup> to 200 s <sup>-1</sup> . * Characteristic values, not tested on every batch.