

Specification Sheet

CELLINK Bioink

Product description

CELLINK Bioink is the first universal bioink designed to 3D bioprint human tissue models. It is a hydrogel with an excellent printability, composed of alginate and highly hydrated cellulose nanofibrils, which supports 3D cell culture of various cell types. CELLINK Bioink can be easily crosslinked with the included Ca^{2+} -containing Crosslinking Agent. 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

IKC20000

Shelf life

Minimum 6 months, expiration date stated on package.

Storage and handling

Store at 2-10°C. **DO NOT FREEZE.**
Handling can be done at room temperature. 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://www.cellink.com/product/cellink-bioink/>.

Property	Specification	Method
<i>Appearance</i>	White semi-translucent gel	Visual inspection.
<i>Sterility</i>	Sterile	Tested for the presence of bacteria, fungi and yeast with method adapted from Ph Eur 2.6.1 and USP <71>.
<i>pH</i>	6.5-7.4	Assessed with pH paper.
<i>Viscosity</i>	2.6-7.5 kPa·s at 0.01 s ⁻¹ ; 1.0-1.9 Pa·s at 200 s ⁻¹	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 ⁻¹ to 200 s ⁻¹ .