

## Specification Sheet

# Bio Conductink

<b>Product description</b>	Bio Conductink is a GelMA-based bioink supplemented with single-walled carbon nanotubes that support cell communication through electropotential. Bio Conductink is easily photocrosslinked due to the LAP photoinitiator at 0.25%. Recommended for use with BIO X temperature-controlled printhead and cooled printbed, or for use with INKREDIBLE+ and heated printhead. 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>	IK3CT102
<b>Shelf life</b>	Minimum 2 months, expiration date stated on package.
<b>Storage and handling</b>	Store at 4-8°C. DO NOT FREEZE. Protect from light and 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/bio-conductink/">https://cellink.com/product/bio-conductink/</a> or scan the QR code below.



Property	Specification	Method
<i>Appearance</i>	Black gel	Visual inspection.
<i>Sterility</i>	Sterile	Tested for the presence of bacteria, fungi and yeast. Tested on raw materials.
<i>Endotoxin level</i>	<50 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>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. Tested on raw material.
<i>Gelation temperature</i>	24-28°C	Tested using rotational 20 mm plate-plate HR-2 TA Instruments Rheometer. Temperature sweep from 40°C-15°C, at 1% strain and 10 rad/s angular frequency.