

## Specification Sheet

# GelMA C

**Product Description** Biocompatible material for 3D bioprinting, **Research Grade**. For research use ONLY. Not intended for *in vitro* diagnostics and *in vivo* uses. Not intended for administration in humans or animals.

Produced under sterile and aseptic conditions. Raw materials are tested for sterility and endotoxin level.

<b>Product Number</b>	IK351102	<b>Shelf Life</b>	3 months
<b>Storage</b>	Store at 4-8°C.		
<b>Handling</b>	DO NOT FREEZE. Protect from light. Avoid temperature fluctuations.		
<b>Safety</b>	Handle in accordance with good hygiene and laboratory safety practices.		

Properties	Specification	Method
<i>Appearance</i>	Opaque gel	Visual inspection.
<i>Sterility</i>	Sterile	Tested for the presence of bacteria, fungi and yeast.
<i>Endotoxin level</i>	<30 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>Cell viability</i>	≥75% live cells	3D cell culture performed with mesenchymal stem cells for 7 days. Based on routine QC performed every fourth month.
<i>pH</i>	7.4	Assessed with pH meter.
<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.
<i>Viscosity</i>	1-4 000 Pa·s	Tested using rotational 20 mm plate-plate HR-2 TA Instruments Rheometer. Flow sweep parameters: shear rate from 0.002 s <sup>-1</sup> to 500 s <sup>-1</sup> , 26°C.