

## Specification Sheet

# GelMA 20%

<b>Product description</b>	GelMA 20% (w/w) is a concentrated solution of porcine gelatin functionalized with methacrylate groups. Follow the <i>Dilution Protocol GelMA 20%</i> for instruction on how to prepare your GelMA based bioink. For a detailed description of a bioprinting process, follow the <i>Bioprinting Protocol GelMA Bioink</i> . Mixed with a LAP photoinitiator, GelMA hydrogels are easily photocrosslinked using 365 nm or 405 nm LED modules.
<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 and <i>in vivo</i> uses. Not intended for administration in humans or animals. Produced under sterile and aseptic conditions.
<b>Product number</b>	IKG1250000005
<b>Shelf life</b>	Minimum 4 months, expiration date stated on package.
<b>Storage and handling</b>	Store at 4-8°C. DO NOT FREEZE. Protect from light. Avoid temperature fluctuations.
<b>Safety</b>	Handle in accordance with good hygiene and laboratory safety practices. Read <i>Safety Data Sheet (SDS) GelMA Solution</i> for more information regarding ingredients and potential hazardous compounds.
<b>Related documents</b>	Reconstitution Protocol and Safety Data Sheet can be downloaded from our website at <a href="https://www.cellink.com/global/product/gelma-20/">https://www.cellink.com/global/product/gelma-20/</a> . Scan the QR code below to reach it.



Property	Specification	Method
<i>Appearance</i>	Clear amber gel	Visual inspection.
<i>Sterility</i>	Sterile	Tested for the presence of bacteria, fungi and yeast.
<i>Viscosity</i>	168±60 Pa·s	Diluted to 10% with Reconstitution Agent P. Tested using rotational 20 mm plate-plate HR-2 TA Instruments Rheometer, assessed at 1 s <sup>-1</sup> . Flow sweep parameters: shear rate from 0.001 s <sup>-1</sup> to 100 s <sup>-1</sup> , 26°C.
<i>pH</i>	7-7.4	Diluted to 10% with Reconstitution Agent P. Measured with pH paper or pH meter.
<i>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.