

## Specification Sheet

# GelMA PhotoInk™

|                             |   |
|-----------------------------|---|
| <b>Product description</b>  | Volumetric's GelMA PhotoInk™ is a biocompatible, cell-adhesive and MMP degradable bioink developed for the light based bioprinter Lumen X™. Ideal for bioprinting soft microfluidic devices and tissue lattice structures with features $\geq 500 \mu\text{m}$ , as well as structures containing embedded cells. For a detailed instruction, follow the <i>Usage Protocol GelMA PhotoInk</i> . |
| <b>Composition</b>          | Composed of gel strength 300, Type A gelatin.   |
| <b>Intended use</b>         | Biocompatible material for light based 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.  |
| <b>Product number</b>       | D16110022026  |
| <b>Shelf life</b>           | Minimum 6 months, recommended use by date stated on vials.  |
| <b>Storage and handling</b> | Store at 4 °C. Protect from light.  |
| <b>Shipping</b>             | Styrofoam box with ice packs.   |
| <b>Safety</b>               | Handle in accordance with good hygiene and laboratory safety practices. Read <i>Safety Data Sheet (SDS) GelMA PhotoInk</i> for more information.  |
| <b>Related documents</b>    | Usage Protocol and Safety Data Sheet can be downloaded from our website at <a href="https://www.cellink.com/product/lumen-x-gelma-photoink/">https://www.cellink.com/product/lumen-x-gelma-photoink/</a> . Scan the QR code below to reach it.  |

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| Property                                  | Specification       | Method  |
|---|---------------------|---|
| <i>Form</i>                               | Liquid at ~37 °C    | Visual inspection.  |
| <i>Color</i>                              | Transparent, yellow | Visual inspection.  |
| <i>Microbiological purity</i>             | Sterile filtered    | Single sterile filtered through 0.22 µm.                          |
| <i>Storage Modulus at End of Exposure</i> | 22 ± 5 kPa          | Photorheology, 100 µm gap, 90 s exposure at 20 mW/cm <sup>2</sup> |
| <i>Exposure time</i>                      | 4.5 ± 1 s           | Printing at 50 µm thickness, 20 mW/cm <sup>2</sup>                |
| <i>Exposure time</i>                      | 6 ± 1 s             | Printing at 100 µm thickness, 20 mW/cm <sup>2</sup>               |