

Specification Sheet

PEGDA500 PhotoInk™

Product description	Volumetric's PEGDA500 PhotoInk is a biocompatible and non-biodegradable bioink developed for the light based bioprinter Lumen X™. Ideal for bioprinting rigid tissue lattice structures with struts $\geq 300 \mu\text{m}$. For a detailed instruction, follow the <i>Usage Protocol PEGDA500 PhotoInk</i> .
Composition	Composed of low ($< 2000 \text{ Da}$) and high ($\geq 2000 \text{ Da}$) PEGDA molecular weights.
Intended use	Biocompatible material for light based bioprinting, Research Grade . 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.
Product number	D16110022030
Shelf life	Minimum 6 months, recommended use by date stated on vials.
Storage and handling	Store at $4 \text{ }^\circ\text{C}$. Protect from light.
Shipping	Styrofoam box with ice packs.
Safety	Handle in accordance with good hygiene and laboratory safety practices. Read <i>Safety Data Sheet (SDS) PEGDA500 PhotoInk</i> for more information.
Related documents	Usage Protocol and Safety Data Sheet can be downloaded from our website at https://www.cellink.com/product/lumen-x-pegda500-photoink/ . Scan the QR code below to reach it.

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Property	Specification	Method
<i>Form</i>	Liquid at ~22 °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>	500 ± 25 kPa	Photorheology, 100 µm gap, 90 s exposure at 20 mW/cm ²
<i>Exposure time</i>	2 ± 1 s	Printing at 50 µm thickness, 20 mW/cm ²
<i>Exposure time</i>	4 ± 1 s	Printing at 100 µm thickness, 20 mW/cm ²