

Specification Sheet

PEGDA PhotoInk™

| | |
|-----------------------------|---|
| Product description | Volumetric's PEGDA PhotoInk is a biocompatible and non-biodegradable bioink developed for the light based bioprinter Lumen X™. Ideal for bioprinting soft microfluidic devices and tissue lattice structures with features $\geq 500 \mu\text{m}$. For a detailed instruction, follow the <i>Usage Protocol PEGDA PhotoInk</i> . |
| Composition | Composed of 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 | D16110022028 |
| Shelf life | Minimum 6 months, recommended use by date stated on vials. |
| Storage and handling | Store at 4 °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) PEGDA 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-pegda-photoink/ . Scan the QR code below to reach it. |

PhotoInk is a registered trademark of Volumetric. Lumen X is a registered trademark of CELLINK. All rights reserved.



| 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> | 50 ± 10 kPa | Photorheology, 100 µm gap, 90 s exposure at 20 mW/cm ² |
| <i>Exposure time</i> | 12 ± 1 s | Printing at 50 µm thickness, 20 mW/cm ² |
| <i>Exposure time</i> | 18 ± 1 s | Printing at 100 µm thickness, 20 mW/cm ² |