

Specification Sheet

ColMA Lyophilizate

Product description	ColMA is a methacrylated type I collagen biomaterial for 3D cell culturing (cell encapsulation and delivery), tissue engineering and regenerative medicine, biomedical devices, drug delivery for research. After dissolution in the Reconstitution Agent A (or in an alternative acidic solution) and neutralization, it's ready for printing or mixing with other components into your own bioink. For step-by-step instructions, follow the <i>Reconstitution Protocol ColMA</i> and <i>Neutralization and Printing Protocol ColMA Solution</i> . Once neutralized, this material self-assembles if heated. Addition of a photoinitiator for photocrosslinking ensures stable mechanical properties.
Intended use	Biocompatible material for 3D cell culturing, 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	VL450000
Shelf life	Minimum 4 months, expiration date stated on package.
Storage and handling	Store at -20 to 4°C. Avoid temperature fluctuations. Protect from light.
Safety	Handle in accordance with good hygiene and laboratory safety practices. Read <i>Safety Data Sheet (SDS) ColMA Lyophilizate</i> for more information regarding ingredients and potential hazardous compounds.
Related documents	Reconstitution Protocol and Safety Data Sheet can be downloaded from our website at https://www.cellink.com/global/product/colma-lyophilizate/ . Scan the QR code below to reach it.



Property	Specification	Method
<i>Appearance</i>	White lyophilizate	Visual inspection.
<i>Sterility</i>	Sterile	Tested for the presence of bacteria, fungi and yeast.
<i>pH</i>	4.0-4.8	5 mg/mL in Reconstitution Agent A. Measured with pH paper or pH meter.
<i>Degree of methacrylation</i>	15-25%	¹ 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. Methacrylate peaks present at 5.4, 5.6, and 1.9 ppm.