

Specification Sheet

ColMA Solution

Product description	ColMA solution contains methacrylated collagen dissolved in Reconstitution Agent A at the concentration of 5 mg/mL. Neutralize it on ice, mix it with cells and build 3D cell culture constructs. ColMA is a unique variation of type I collagen that has been modified with photoactive methacrylate groups, enabling it to be crosslinked with light at 365 and 405 nm wavelengths. For description on how to neutralize, mix with cells, print and thermally gel the collagen, follow the <i>Neutralization and Printing Protocol ColMA Solution</i> .
Intended use	Biocompatible material for 3D bioprinting, Research Grade . For research use ONLY. Not intended for <i>in vitro</i> diagnostics or <i>in vivo</i> uses. Not intended for administration in humans or animals.
Product number	IK450000
Shelf life	Minimum 2 months, expiration date stated on package.
Storage and handling	Store at 4-8°C. DO NOT FREEZE. Avoid temperature fluctuations.
Safety	Handle in accordance with good hygiene and laboratory safety practices. Read <i>Safety Data Sheet (SDS) ColMA Solution</i> for more information regarding ingredients and potential hazardous compounds.
Related documents	Neutralization and Printing Protocol as well as Safety Data Sheet can be downloaded from our website https://www.cellink.com/global/product/colma-solution-5-mg-ml/ . Scan the QR code below to reach the website.



Property	Specification	Method
<i>Appearance</i>	Semitransparent liquid	Visual inspection.
<i>Sterility</i>	Sterile	Tested for the presence of bacteria, fungi and yeast.
<i>pH</i>	4.0-4.8	Assessed 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.