

Specification Sheet

ColMA Kit

Product description	ColMA Kit contains methacrylated type I collagen powder for use as a 3D tissue construct biomaterial, or as a component in bioinks. Reconstitute in an acid buffer, neutralize and it's ready to print or be used in your own bioinks, for step-by-step instructions follow the Reconstitution Protocol and Casting Protocol . This material self-assembles if heated. Add a photoinitiator for photo-crosslinking to enhance the mechanical properties. Recommended to use with temperature-controlled printhead and heated print bed.
Intended use	Biocompatible material for 3D bioprinting and casting, 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. Produced under sterile and aseptic conditions.
Product number	VL450000
Shelf life	6 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 Safety Data Sheet for more information regarding ingredients and potential hazardous compounds.
Related documents	Reconstitution Protocol, Casting Protocol and Safety Data Sheet can be downloaded from our website https://cellink.com/product/colma-kit/ or scan the QR code below.



Property	Specification	Method
<i>Appearance</i>	White powder	Visual inspection.
<i>Sterility</i>	Sterile	Tested for the presence of bacteria, fungi and yeast.
<i>Endotoxin level</i>	<10 EU/g	Limulus Amoebocyte Lysate assay, Pharmacopoeia 2.6.14 "Bacterial endotoxins": Method D, accredited by SWEDAC. Accreditation Certification 1240: ISO 15189, 2010-11-22.
<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.