

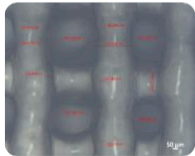
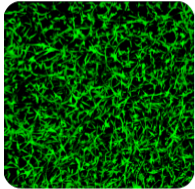
REGE MAT 3D

Collagen Series

Bioinks that mimic the ECM



ColBioink is a sterile solution of **highly purified type I collagen** that can be used either straightaway to print **three-dimensional scaffolds or being loaded with suspended cells**, to print cell-laden structures directly. The native extracellular matrix formed of collagen ensures **high viability of encapsulated cells in long term cell cultures**. Native ColBioink ensures thus formed structures could be safely grafted **without immune rejection and used for *in vivo* studies in tissue engineering**. Final 3D bioprinted constructs with ColBioink allow for **superior resolution using nozzle diameters of 20-32 gauge and 1.2-12 mm/s flow speeds**.

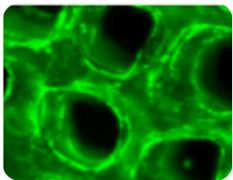


Key Properties:

- 💧 **Biocompatibility:** supports **cell adhesion** and proliferation.
- 💧 **Reproducibility:** Production under **strict quality control**
- 💧 **Biodegradability:** enables **cellular remodelling** of the printed matrix.
- 💧 **Easy handling:** Delivered in a **ready-to-use cartridge**. Ready for printing after heating

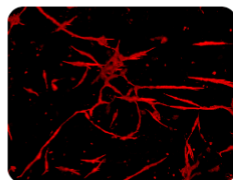
Application potential:

Adipose Tissue



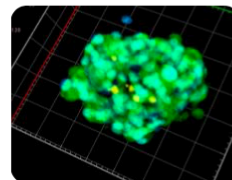
ASC

Blood Vessels



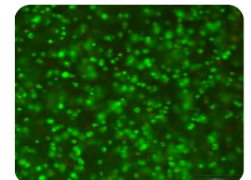
HUVEC

Brain Tissue



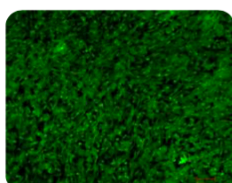
Glioblastoma

Cartilage



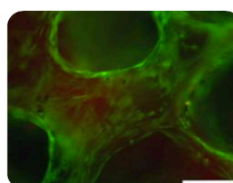
Chondrocytes

Bone Tissue



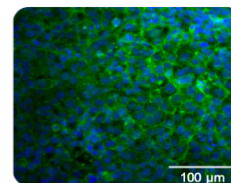
Osteoblasts

Skin



HFF

Cornea



CEnC

Product Characterization

Parameter	Specification
Collagen	Type I
Origin	Porcine
Concentration	80 mg/ml
Solute	10 mM acetic acid
Sterility	Negative for bacteria and fungi

Storage and Stability

Component	Size	Storage	Shelf Life
ColBioink	1-3 mL Syringe	** 4°C	* Stable until expiry date (EXP) on label.

* The expiration date of the ColBioink can be found in the product label and is normally 12 months from the manufacture. ** ColBioinks should be stored between 4-22°C and protect from light for optimum performance. Once opened, it is recommended that the product is stored between 4-8°C for a maximum of 3 months. Ensure the cartridges are capped prior to storage to prevent drying.

Safety Information

Description of first aid measures:

- I. Inhalation: Move to fresh air. Seek medical attention if symptoms appear.
- II. Skin contact: Rinse the affected zone with water. Seek medical attention if irritation appears.
- III. Eye contact: Rinse with plenty of water for several minutes. Seek medical attention if irritation in the eyes occur.
- IV. Ingestion: Rinse mouth with plenty of water. If large quantities of the product are ingested, procure to expulse it. Seek medical attention if symptoms appear.



What Would You Like To Create?



www.regemat3d.com



info@regemat3d.com



+34 958 63 71 24



@REGEMAT3D