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## CollaGel Hydrogel Cod. N° OLF-CGH320

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Precautions and Disclaimer: This product is for R&D use only, not for drug, household or other uses.

### **Product Data Product Descriptions:**

CollaGel Hydrogel is a biocompatible complex of Type I Collagen fibers that will help accelerate the pace of your biomedical and cell/3Dtissue engineering applications. CollaGel Hydrogel contains our high quality, sterile Type I Rat Tendons Collagen which has been specially formulated for ease of gel formation. Once in a 3D tissue model, the CollaGel Hydrogel will not break or tear apart easily when stretched. CollaGel Hydrogel can also be flow able, allowing it to be readily used as an injectable, biocompatible drug delivery matrix on animal models.

To control release of your drug, it is necessary to bind your active agent to CollaGel Hydrogel, either by covalent or non-covalent bonds, or by sequestering in a secondary matrix. Other potential applications of CollaGel Hydrogel are as orthopedic adhesives via their swelling ability, as scaffolds for bone infiltration and formation through their mesh structure, as isolators to retain cells, or as gene delivery complexes.

We are sure that the high quality and convenience of our CollaGel Hydrogel product will improve the performance of your biomedical and cell / 3D tissue culture applications. CollaGel Hydrogel is an ideal matrix for growing fibroblast; Primary hepatocyte culture and great for growing smooth muscle cells. You will be able to get really nice adipogenesis with MSCs using our CollaGel Hydrogel. For cell/tissue applications that require a less rigid or a more porous matrix, try our CollaGel Hydrogel Soft product.

### **Product Specs:**

**Cell Culture Testing:** Pass

**Source:** Rat Tendons

**Shelf Life:** 12 months

**Storage:** -20 ° C

**Purity:** > 95% SDS PAGE

**Concentration:** 1 mg/ml Sircol Assay

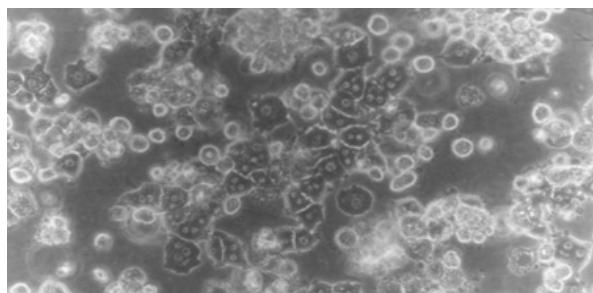
**Product pH:** 7.0

**Product Conductivity:** 0.8 ms/cm

**Sterility:** Pass

**Endotoxin Level:** < =1EU/ml

**Cell Line:** Primary hepatocyte culture in 3D model using our CollaGel Hydrogel



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Everything should be kept cold to avoid the CollaGel Hydrogel solidifying and avoid air bubbles. This protocol is base on a 6-well plate usage.

3x10<sup>6</sup> cells or a fully confluent T75  
20 ml CollaGel Hydrogel  
DMEM

### Method:

Thaw your CollaGel Hydrogel sample bottle at room temp or in a 37°C water bath. When you see a small amount of ice left in your sample, transfer the bottle into an ice bath. It is important to keep CollaGel Hydrogel on ice since it will solidify at temperatures above 8°C.

1. Place a sterile magnetic stir bar in a sterile beaker.
2. Place plate containing ice on a stir plate.
3. Place the sterile beaker containing the stir bar on the ice bath.
4. Pour you CollaGel Hydrogel into the beaker carefully, try to avoid air bubbles.
5. Slowly start stirring CollaGel Hydrogel solution.
6. Add your wanted media to the CollaGel Hydrogel solution. Judge the pH visually by the phenol red in the media, add your cell suspension
7. Pipette your wanted volume of the mixture into each well.
8. Let 6-well plate sit at room temp for 10-15 minute before placing in the incubator.
9. The next day add your wanted volume of media on top of each CollaGel Hydrogel (2-2.5ml).
10. Use within 1 week, change media every 2 days or as needed.

