NEUROMICS

CollaGel Hydrogel R

Precautions and Disclaimer: Caution: The handling of any organism's derived products has potential to be biologically hazardous. Proper precautions must be taken to avoid exposure. Always wear proper protective equipment (Gloves, safety glasses, etc.) when handling these materials. We recommend following the universal procedures for handling products of any organism's origin as the minimum precaution against contamination. All products offered by Neuromics are for laboratory research purposes only. Any other use and results of that use are the sole responsibility of the user and are not in any way the responsibility of Neuromics

Product Data and Description

CollaGel Hydrogel (CGH) 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 Soft 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 CGH will not break or tear apart easily when stretched. CGH's can also be flowable, allowing it to be readily used as an injectable, biocompatible drug delivery matrix on animal models.

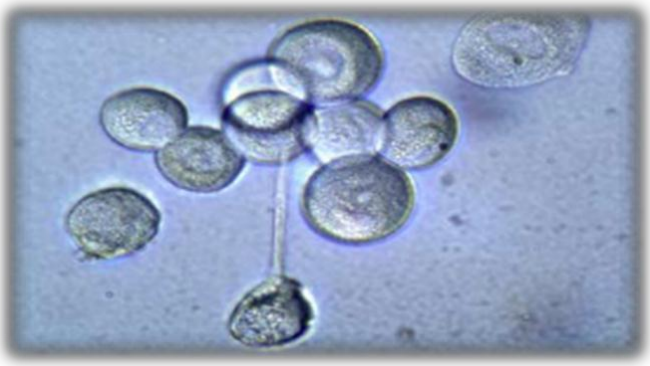
To control release of your drug, it is necessary to bind your active agent to CGH by covalent or noncovalent bonds, or by sequestering in a secondary matrix.

Other potential applications of our CGH's 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.

The high quality and convenience of our CGH products will improve the performance of your biomedical and cell / 3D tissue culture applications. CGH is an ideal matrix for growing fibroblasts, primary hepatocyte culture and for growing smooth muscle cells. You will be able to get adipogenesis with MSCs using our CollaGel Hydrogel. For cell/tissue applications that require a less rigid or a more porous matrix, try our other CollaGel Hydrogel products.

Catalog #: CGH320
Cell Culture Testing: Pass
Source: Rat Tendon
Shelf Life: ≥12 months
Storage: -20 ° C **Purity:** > 95% SDS PAGE **pH:** 7.0 **Conductivity:** 0.8 mS/cm
Sterility: Pass
Endotoxin Level: ≤1EU/ml

Cell Line: LNCaP in a 3D culture using our CollaGel Hydrogel Soft



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Precautions - Everything should be kept cold to avoid the CollaGel Hydrogel from solidifying. Avoid air bubbles. This protocol is based on 6- well plate usage.

Recommended:

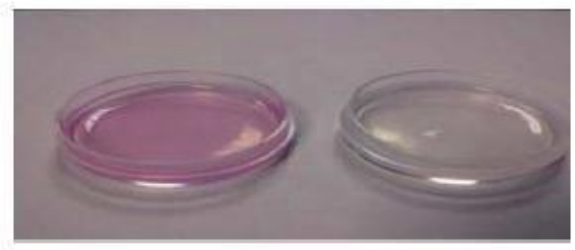
3x106 cells or a fully confluent T75

20 ml CollaGel Hydrogel DMEM

Method

Thaw your CollaGel Hydrogel sample bottle at room temp or in a 37ºC water bath, invert product while thawing. 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 8ºC.

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



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