

CollaGel Hydrogel R Soft +

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 #: CGH322

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



FOR RESEARCH USE ONLY

NEUROMICS' REAGENTS ARE FOR IN VITRO AND CERTAIN NON-HUMAN IN VIVO EXPERIMENTAL USE ONLY AND NOT INTENDED FOR USE IN ANY HUMAN CLINICAL INVESTIGATION, DIAGNOSIS, PROGNOSIS, OR TREATMENT. THE ABOVE ANALYSES ARE MERELY TYPICAL GUIDES. THEY ARE NOT TO BE CONSTRUED AS BEING SPECIFICATIONS. ALL OF THE ABOVE INFORMATION IS, TO THE BEST OF OUR KNOWLEDGE, TRUE AND ACCURATE. HOWEVER, SINCE THE CONDITIONS OF USE ARE BEYOND OUR CONTROL, ALL RECOMMENDATIONS OR SUGGESTIONS ARE MADE WITHOUT GUARANTEE, EXPRESS OR IMPLIED, ON OUR PART. WE DISCLAIM ALL LIABILITY IN CONNECTION WITH THE USE OF THE INFORMATION CONTAINED HEREIN OR OTHERWISE, AND ALL SUCH RSKS ARE ASSUMED BY THE USER. WE FURTHER EXPRESSLY DISCLAIM ALL WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.-V2/08/2012

CollaGel Hydrogel R Soft +

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 37°C 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 8°C.

- ✓ 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.



FOR RESEARCH USE ONLY

NEUROMICS' REAGENTS ARE FOR IN VITRO AND CERTAIN NON-HUMAN IN VIVO EXPERIMENTAL USE ONLY AND NOT INTENDED FOR USE IN ANY HUMAN CLINICAL INVESTIGATION, DIAGNOSIS, PROGNOSIS, OR TREATMENT. THE ABOVE ANALYSES ARE MERELY TYPICAL GUIDES. THEY ARE NOT TO BE CONSTRUED AS BEING SPECIFICATIONS. ALL OF THE ABOVE INFORMATION IS, TO THE BEST OF OUR KNOWLEDGE, TRUE AND ACCURATE. HOWEVER, SINCE THE CONDITIONS OF USE ARE BEYOND OUR CONTROL, ALL RECOMMENDATIONS OR SUGGESTIONS ARE MADE WITHOUT GUARANTEE, EXPRESS OR IMPLIED, ON OUR PART. WE DISCLAIM ALL LIABILITY IN CONNECTION WITH THE USE OF THE INFORMATION CONTAINED HEREIN OR OTHERWISE, AND ALL SUCH RSKS ARE ASSUMED BY THE USER. WE FURTHER EXPRESSLY DISCLAIM ALL WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. -V2/08/2012

www.neuromics.com

Neuromics • 5325 West 74th Street, Suite 8 • Edina, MN 55439
phone 866-350-1500 • fax 612-677-3976 • e-mail: pshuster@neuromics.com