

Cryopreserved Chondrocytes, Human

CDD-H-2610-N
CDD-H-2610-OA
CDD-H-2610-RA

Product Description: Human cartilage tissue is digested with a 2-step enzymatic treatment. The isolated cells are processed for cryopreservation and combined with serum containing 10% DMSO.

Physical State: Shipped frozen with dry ice. Immediately upon receipt cells should be stored in a cryo-storage system until ready to use.

Components: 1 cryovial containing cryopreserved cells

Culture of Cells: Handle all cells with strict sterile technique. Cryopreserved cells should be thawed quickly, diluted slowly and reseeded at high density.

1. Collect all culture supplies. Recommended media: Chondrocyte Growth Medium with serum supplement (FBS, FCS or human serum) and standard cell culture antibiotics. Warm media to room temperature.
2. Open insulated box and discard packing material. Dispose of dry ice appropriately.
3. Warm the vial with cryopreserved cells quickly in a 37 °C water bath. Avoid getting water up to the level of the cap as this will increase the chance of contamination.
4. When thawed, swab the vial with 70% alcohol. Open the vial carefully in a tissue culture hood.
5. Very gently transfer the cells dropwise to a flask with 5 ml pre-warmed media. Rinse the vial with 1 ml of medium and add dropwise to cell mixture.
6. Add medium slowly and gently to flask, dropwise at the start until the desired dilution is reached. For a T-75 flask a total volume of 20 ml of medium is sufficient.
7. Place cells in a humidified incubator at 37°C and 5% CO₂ for the duration of culture.
8. Check the culture after 24 hours. Change the media, removing all non-attached cells.
9. Process cells according to your protocol. We recommend that the medium be changed every 2-3 days.
10. Cells should be sub-cultured during active growth phase of culture or when cells are approximately 80-90% confluent.

Additional Required Materials Not Supplied

- 5% CO₂ incubator maintained at 37°C
- Sterile biological containment hood
- Sterile tissue culture plasticware
- Sterile pipettes

- Tissue culture medium

Precautions: For *in vitro* research use only, not for diagnostic or therapeutic use. This product is not a medical device. It is not approved for human or animal use.

Human tissues have tested negative for HIV-1 and -2, HBV and HCV. However, because the tissue is derived from human source material, cultures should be handled as potentially infectious agents.

Materials used in the culture of human cells should be disposed of properly.

Country of origin: USA