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Technical Datasheet

Human Extracellular Matrix

Cell Culture Tested

Product Code: CF099

Product Description:

Source:Human placenta

Human Extracellular Matrix (Human ECM) is matrix extract of human placenta. It is partially purified using chromatographic procedure. Human ECM is composed of laminin, collagen IV and heparan sulfate proteoglycon. It promotes attachment, spreading, cell divison and differentiation of anchorage- dependent epithelial cells, particularly of human origin. Human ECM is used coat surface of tissue culture plates.

CF099 is Human Extracellular Matrix frozen in 0.02M Sodium Phosphate. pH 7.4.

Directions:

1. Extracellular matrix should be used at a range of 1.25-10 µg/ cm^2. The optimal concentration of extracellular matrix needed for cell attachment vary depending on cell types. It is recommended to determine the optimal conditions for individual cell culture systems.
2. Allow vial to equilibriate to room temperature. Wipe the top of the vial with 70% ethanol. For reconstitution, add desire volume of sterile serum free medium using aseptic technique.
3. Allow 5-10 minutes for solublization and mix solution throughly by gentle aspiration with a sterile pipette. *Do not votex.*
4. For coating, add appropriate amount of diluted material to the surface of the plate to be coated. The surface should be coated evenly. Eg: If the final coating concentration if 5.0 µg/ cm^2, the material should be diluted to 50 µg/ml and add 1 ml in 35 mm dish, 3 ml in 60 mm dish, and likewise.
5. Incubate at room temperature for 2 hrs and aspirate the remaining material after incubation.
6. Rinse the plate carefully avoiding scratching the bottom surface.
7. Plate coated with ECM can be used immediately. If not used, it can be stored at humified chamber at 2-8^{0}C or air-dried inside a laminer flow.
8. Upon thawing, if entire contents of vial are not used immediately, aliquot and store at -70^{o}C. Avoid repteated freeze thaw cycles.

Quality Control:

Appearance
Frozen powder.

Solubility
Soluble in serum free medium as per application

Biological activity: Determined by its ability to promote neurite outgrowth of NG-108 (mouse neuroblastoma/rat glioma) cells at 10 µg/cm^2.

Storage and Shelf Life:

Stable when stored at -70^{0}C. Do not store in frost free freezer
NOTE: Keep frozen

Product form	Temperature	Storage time
Unopened	-70^{0}C	See expiry date on product label

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