

Certificate of Analysis

CORNING® HUMAN EXTRACELLULAR MATRIX

Corning Human Extracellular Matrix (Human ECM) is a chromatographically partially purified matrix extract of human placenta. It is comprised of laminin, collagen-IV and heparan-sulfate-proteoglycan.¹ Human-ECM promotes attachment, spreading, mitosis, and differentiation of anchorage-dependent epithelioid cells, particularly of human origin.

CATALOG NUMBER: 354237 LOT NUMBER: 4020001

SOURCE: Human placenta

NOTE: The source placenta used to prepare Human ECM was tested and found negative for Hepatitis B Surface Antigen (HBsAG) and anti-HIV-1 antibody. Nevertheless, this product should be handled using the same safety precautions used when handling potentially infectious material.

QUANTITY: 1.0 milligram, in 1.17 milliliters, frozen.

FORMULATION: 0.02 M sodium phosphate, pH 7.4

RECONSTITUTION & USE: Human ECM is used as a thin coating on tissue culture surfaces. The optimal concentration for cell attachment and culture may differ for various cell types. Some experimentation may be required to determine the optimal conditions for individual cell culture systems. The recommended range for use is 1.25-10.0 µg/cm². Please see reverse side for coating procedure. If entire amount is not to be used immediately, dispense into appropriate aliquots and store at -70°C. **AVOID MULTIPLE FREEZE-THAWS.**

QUALITY CONTROL: Human ECM was tested and found to promote neurite outgrowth of NG-108 (mouse neuroblastoma/rat glioma) cells at 10 µg/cm².

Corning Human Extracellular Matrix has been tested and found negative for the presence of bacteria, fungi and mycoplasma.

STORAGE: Stable when stored at -70°C. Avoid multiple freeze-thaws. Do not store in frost-free freezer. **KEEP FROZEN.**

EXPIRATION DATE: March 16, 2016

REFERENCES: 1. Kleinman, HK, et al., U.A. Patent 4,829,000 (1989).

Use these recommendations as guidelines to determine the optimal coating conditions for your culture system.

Coating Procedure

- 1) Dilute material to desired concentration using serum-free medium. The final solution should be sufficiently dilute so that the volume added covers the surface evenly.

Example: If the final coating concentration is $5.0 \mu\text{g}/\text{cm}^2$ dilute the material to $50 \mu\text{g}/\text{mL}$ and add 1 mL/35 mm dish, 3 mL/60 mm dish, etc.

- 2) Add appropriate amount of diluted material to culture surface.
- 3) Incubate at room temperature for 2 hours.
- 4) Aspirate remaining material.
- 5) Rinse plates carefully, being careful not to scratch bottom surface.
- 6) Plates are ready for use. They may also be stored at 2-8°C damp or air dried if sterility is maintained.



Quality Assurance



Date