

## Product Information

### Laminin from Engelbreth-Holm-Swarm murine sarcoma (basement membrane)

Product Number **L 2020**  
Storage Temperature  $-20\text{ }^{\circ}\text{C}$

CAS RN: 114956-81-9

#### Product Description

Laminin is isolated as the intact native form from Engelbreth-Holm-Swarm tumor, a mouse tumor that produces large amounts of basement membranes.<sup>1</sup> Laminin chains are designated A (molecular weight 400 kDa), B1 (molecular weight 210 kDa) and B2 (molecular weight 200 kDa). The cohesion between these chains is the result of many inter- and intrachain disulfide bonds. Together, they cause the molecule to look like a crucifix. Laminin has active domains for collagen binding, cell adhesion, heparin binding, and neurite outgrowth (PHD) fragment.<sup>2</sup>

It is recommended for use as a cell culture substratum at  $1\text{-}2\text{ }\mu\text{g}/\text{cm}^2$ . The optimal concentration will depend upon the cell type as well as the application or research objectives.

#### Reagent

Supplied at a concentration of approximately  $1\text{--}2\text{ mg/mL}$  in  $50\text{ mM}$  Tris-HCl, pH 7.5, with  $150\text{ mM}$  NaCl. It is sterile-filtered using a  $0.2\text{ }\mu\text{m}$  filter.

#### Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

#### Preparation Instructions

The solution should be thawed slowly at  $2\text{-}8\text{ }^{\circ}\text{C}$ . If warmed too quickly, it may form a gel and cannot be reactivated for use.

#### Storage/Stability

Store unused portion in working aliquots at  $-20\text{ }^{\circ}\text{C}$ .

#### Procedure

Optimal conditions for attachment must be determined for each cell line and application.

1. Slowly thaw the laminin solution at  $2\text{-}8\text{ }^{\circ}\text{C}$  to avoid the formation of a gel.
2. Dilute in a sterile balanced salt solution, or in sterile water, and coat culture surface with a minimal volume.
3. Incubate at  $37\text{ }^{\circ}\text{C}$  for two hours
4. Wash 3 times with PBS and plate the cells.

Laminin coatings, such as laminin-coated cover slips, may be stored for approximately one month at  $2\text{-}8\text{ }^{\circ}\text{C}$ .

Do not use the product if discoloration or spider web formations appear on the surface of the coated material.

#### References

1. Timpl, R., et al., Laminin--a glycoprotein from basement membranes. *J. Biol. Chem.*, **254**, 9933-9937 (1979).
2. Kleinman, H. K., et al., Use of extracellular matrix components for cell culture. *Anal. Biochem.*, **166**, 1-13 (1987).

NDH,PHC,PCG 09/20