Laminin from human placenta
cell culture tested

Product Number L6274
Storage Temperature –70 °C

CAS RN: 114956-81-9

Product Description
Laminin is an epithelial cell adhesion glycoprotein, which is composed of 3 chains designated A (400 kDa), B1 (210 kDa) and B2 (200 kDa). The cohesion between these chains is the result of many inter- and intrachain disulfide bonds. The native form of the molecule is roughly the shape of a crucifix. ¹

The product is purified from human placenta using pepsin treatment and immunoaffinity chromatography. SDS-PAGE, under reducing conditions, shows two major bands: one at ~50 kDa and the other in the range of 130-160 kDa, consistent with literature.² Other minor proteolytic bands are observed as well and the intensity of the different bands may vary.

Reagent
Supplied at a concentration of ~0.5 mg/ml in 50 mM Tris-HCl, pH 7.4, with 150 mM NaCl; sterile-filtered using a 0.2 µm 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 2-8 °C. If warmed too quickly, it may form a gel and cannot be reactivated for use.

Storage/Stability
The product is shipped on dry ice and storage at –70 °C is recommended.

If the product has been warmed to room temperature and a gel forms, it is not possible to regenerate a solution for use.

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

1. Slowly thaw the laminin solution at 2-8 °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 °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 2-8 °C.

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

References

ES-S, PHC 07/07-1

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