

Product Information

Laminin from human fibroblasts cell culture derived

Catalog Number **L4544**
Storage Temperature $-70\text{ }^{\circ}\text{C}$

Product Description

Laminin is an epithelial cell adhesion glycoprotein, which is composed of 3 chains designated $\alpha 1$, $\beta 1$, and $\gamma 1$. Laminin promotes adhesion, differentiation, migration, and growth of many cells *in vitro*.

This laminin product is produced by human fibroblasts and epithelial cells in a co-culture system, which generates an extracellular matrix composed of numerous proteins including laminin. The laminin is then purified biochemically. The product is supplied sterile at a concentration of $\sim 0.5\text{ mg/ml}$ in TBS, pH 7.4.

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 product should be thawed slowly at $2-8\text{ }^{\circ}\text{C}$. 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 $-70\text{ }^{\circ}\text{C}$ is recommended. Under these conditions the product is stable for least 2 years.

Procedure

Coating Procedure

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

1. Slowly thaw the laminin product at $2-8\text{ }^{\circ}\text{C}$ to avoid the formation of a gel.
2. Dilute the product in sterile Hank's Balanced Salt Solution (HBSS). Dilutions vary with each application, but routinely fall in the range of $5-100\text{ }\mu\text{g/ml}$. Coat the plates with a minimal volume. See Table 1 for suggested volumes; however, each application may vary.

Table 1.
Suggested Volumes of Laminin Solution per Well

Plate Size	Volume of Laminin Solution
96-well plate	75 μl per well
24-well plate	500 μl per well
6-well plate	2.4 ml per well

3. Incubate at $37\text{ }^{\circ}\text{C}$ for 1–2 hours.
4. Wash 3 times with sterile HBSS and plate the cells.

Laminin coated, cell culture plasticware and cover slips may be stored for ~ 1 month at $2-8\text{ }^{\circ}\text{C}$.

References

1. Kleinman, H.K., Preparation of basement membrane components from EHS tumors. *Curr. Protoc. Cell Biol.*, Chapter 10, Unit 10.2 (2001).
2. Rohde H. et al., Immunochemical characterization of the basement membrane glycoprotein laminin. *Eur. J. Biochem.*, **102**(1), 195-201 (1979).

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