

## Natural Mouse Laminin

**Cat. No. 23017-015**

**Conc. 0.5–2.0 mg/mL**

**Size: 1 mg**

**Store at -80°C**

### Description

This natural preparation of mouse Laminin was isolated from the Engelbreth-Holm-Swarm (EHS) sarcoma and is supplied at a concentration of 0.5–2.0 mg/mL.

Laminin is the major glycoprotein component of basement membranes, and has a molecular weight of 850,000 daltons. Laminin is a multidomain protein that has a “cross-like” shape with three short arms and one long arm composed of rod-like and globular structural elements (reviewed in reference 1 and 2). It is made up of three disulfide-linked polypeptides; A-chain of molecular weight 400 kDa and B1 and B2 chains (180–200 kDa).

Laminin was first characterized from the EHS sarcoma, (a transplantable mouse tumor that produces large amounts of basement membrane matrix) (3) and from teratocarcinoma cells (4). Laminin modulates functions such as cell attachment, cell spreading, cell growth and motility, binding to itself and other matrix components, promotion of epithelial differentiation, modification of leukocyte function, and stimulation of neurite outgrowth (5).

Cell attachment to laminin is mediated by the  $\alpha 1\beta 1$ ,  $\alpha 2\beta 1$ ,  $\alpha 3\beta 1$ ,  $\alpha 6\beta 1$ ,  $\alpha 7\beta 1$ , and probably  $\alpha 6\beta 4$  integrins (6,7).

### Contents

Supplied in 50 mM Tris-HCl (pH 7.4), 0.15 M NaCl

### Storage

**-80°C Do not store in dilute solution. Do not freeze and thaw repeatedly.**

### Intended Use

For research use only. Not intended for any animal or human therapeutic or diagnostic use.

Part no. 23017015.pps

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### **Directions for Use**

Laminin may form a gel when thawed too rapidly. To avoid this, thaw slowly in the cold (2°C to 8°C). Once thawed, aliquot into polypropylene tubes. Store at 5°C to -20°C and do not freeze/thaw repeatedly. Laminin may be stored at these temperatures for up to six months.

### **Product Qualification**

The Certificate of Analysis provides detailed quality control information for each product. Certificates of Analysis are available on our website at [www.invitrogen.com/support](http://www.invitrogen.com/support).

### **References**

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