Certificate of Analysis

Corning® BioCoat™ Cellware
POLY-D-LYSINE/MOUSE LAMININ
12 mm round Coverslip

Corning BioCoat Cellware provides researchers with the ability to control *in vitro* cellular environments for cell growth and differentiation under physiologically relevant conditions. Extracellular Matrix (ECM) is secreted by cells to form interstitial matrix and basement membrane which constitutes the framework to which cells are anchored. Basement membrane separates cells from mesenchymal connective tissue and provides the spatial orientation and stability required for the organization and development of the characteristic histology of specific tissues. In addition to its structural function, ECM has been recognized for the dynamic role it plays in the regulation of cell growth, differentiation and biochemical function. ECM also appears to function in the sequestration, storage and presentation of growth factors. Corning BioCoat ECM treated Cellware is suitable for use with serum-free or serum-containing cultures to promote cell attachment, spreading, growth and/or differentiation of a variety of normal and neoplastic cells.

CATALOG NUMBER:	354087	LOT NUMBER: 31924003
COVERSLIPS:	No. 1 German Glass, 12 mm round	
PACKAGING:	80 coverslips per package	
SOURCE:	Synthetic Poly-D-Lysine (Molecular Weight 75-150 Kd by viscosity) Laminin: Englebreth-Holm-Swarm (EHS) mouse tumor.	
USE:	The combination of Poly-D-Lysine and Laminin has been used for optimal attachment and axonal growth of dorsal root ganglia from chick neurons,[1] and for culturing both embryonic rat sympathetic neurons[1] and glial feeder layers as a substrate for postnatal rat cortex neurons.[1] The combination has also been used to establish rat hippocampal neurons in culture.[2] Poly-D-Lysine is used to enhance cell attachment to plastic and glass surfaces for many cell types including human amniotic fluid cells, chick embryo cells[3] and a rat pheochromocytoma cell line.[4] Poly-D-Lysine has also been used in the study of the mechanism of neurite outgrowth.[5] Laminin is useful as a substrate for growth and differentiation of many cell types such as epithelial, endothelial, muscle and neuron cells. Specific applications for laminin-treated cellware include outgrowth of blastocytes,[6] growth cone elongation of sensory neurons,[7] cell-substrate interaction during adhesion of keratinocytes,[8] and myeloma cell lines[9] to study the effects of ECM on macrophage function.[10] NOTE: Coverslips are coated on both sides	

Discovery Labware, Inc., Two Oak Park, Bedford, MA 01730, Tel: 1.978.442.2200 (U.S.)
CLSTechServ@Corning.com www.corning.com/lifesciences

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QUALITY CONTROL: Tested for its ability to promote neurite outgrowth with primary rat cerebellar granulocytes. Tested and found negative for the presence of bacteria and fungi.

STORAGE: Stable when stored at 2-8°C. **DO NOT FREEZE**.

EXPIRATION DATE: July 26, 2026

REFERENCES:

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2. Personal communication
3. McKeehan, W.L., et al., In Vitro, **13**:399 (1977).
4. Tomaselli, KJ., et al., J.Cell Biol., **105**: 2347 (1987).
5. Doherty, P., et al., J. Cell Biol., **122**:181 (1993).
6. O'Shea, K.S., et al., J. Cell Biol., **111**:2713 (1990).
7. Lamoureux, P., J. Cell Biol., **118**:655 (1992).
8. Carter, W.G., et al., J. Cell Biol., **110**:1387 (1990).
9. Uchiyama, H., et al., Blood **80**:2306 (1992).
10. McKay, D.B., et al., J. Clin. Invest., **89**:134 (1992)

SAFETY RECOMMENDATION: Handle in accordance with good industrial hygiene and laboratory safety practices.

Elizabeth B Hartigan
Quality Assurance

December 13, 2024
Date

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