

PRODUCT DESCRIPTION

Poly-L-Lysine, a highly positively charged amino acid chain, is commonly used as a coating agent to promote cell adhesion in culture. Cultrex Poly-L-Lysine solution is provided ready-to-use at a 0.1 mg/mL concentration and contains polymers in the 70,000-150,000 Dalton range.

INTENDED USE

Cultrex Poly-L-Lysine is used as a substrate for cell culture adhesion. An area of 25 cm² can be coated with 0.5 mL of a 0.1 mg/mL Poly-L-Lysine solution. Optimal conditions for attachment must be determined for each cell line and application. Slides may be dipped in the solution and air dried before applying sample.

PRODUCT SPECIFICATIONS

Concentration	0.1 mg/mL
Storage Buffer	Phosphate-buffered saline (PBS), sterile-filtered.
Stability	Product is stable for at least 6 months from the date of receipt when stored at 2-8 °C. Keep sterile.
Storage	Store at 2-8 °C.

PRECAUTION

When handling bio-hazardous materials such as human cells, safe laboratory procedures should be followed and protective clothing should be worn.

LIMITATIONS

- FOR LABORATORY RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES.
- The safety and efficacy of this product in diagnostic or other clinical uses has not been established.
- Results may vary due to variations among tissue/cells derived from different donors or sources.

MATERIAL QUALIFICATIONS

Sterility Testing:

- No bacterial or fungal growth detected following 14 days in culture.
- Endotoxin concentration \leq 20 EU/mL by LAL assay.

Functional Assays:

- Tested for ability to promote attachment of rat pheochromocytoma (PC-12) cells.

COATING PROCEDURES

The recommended working concentration is 0.1 mg/mL (as provided) but may need optimization depending on cell type.

1. The following table is a guide for the suggested volumes required per well:
2. Pipette the appropriate amount of Cultrex Poly-L-Lysine solution in each well (Table 1). Swirl the plate to ensure coverage.

PLATE TYPE	CULTREX POLY-L-LYSINE (VOLUME/WELL)
6 wells (or 35 mm dish)	1 mL
24-wells	200 μ L
48-wells	50 μ L
96-wells	20 μ L

Table 1: Suggested plating volumes for Cultrex Poly-L-Lysine plate-coating.

3. Remove excess reagent and dry wells for 2 hours at room temperature in a cell culture hood to ensure sterility.
Note: *Alternatively, pipette the appropriate amount of Cultrex Poly-L-Lysine solution in each well. Incubate the plate for 1-2 hours at 37 °C. Remove excess reagent.*
4. Rinse the wells twice with cold sterile water, PBS, or cell culture medium.
5. Add cells to your coated plates.