

### PRODUCT DESCRIPTION

Poly-L-Ornithine, a highly positively charged amino acid chain, is generally used as a coating reagent to promote cell adhesion in culture. Cultrex Poly-L-Ornithine solution is provided ready-to-use, as a 0.01% (0.1 mg/mL) solution in sterile water, and contains polymers in the 30,000-70,000 Dalton range.

### INTENDED USE

Poly-L-Ornithine is frequently used in combination with Fibronectin or Laminin-I to enhance attachment and differentiation of various neuronal cell types and neural stem cells.

### PRODUCT SPECIFICATIONS

<b>Concentration</b>	0.1 mg/mL (0.01% w/v)
<b>Storage Buffer</b>	Sterile water
<b>Stability</b>	Product is stable for at least 6 months from the date of receipt when stored at 2-8 °C. Keep sterile.
<b>Storage</b>	Store at 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 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. Keep sterile.

1. Pipette the appropriate amount of Cultrex Poly-L-Ornithine solution into each well (Table 1). Swirl the plate to ensure that it is fully coated.

PLATE TYPE	CULTREX POLY-L-ORNITHINE (VOLUME/WELL)
10 cm dish (or 75 cm <sup>2</sup> flask)	10 mL
6 cm dish (or 25 cm <sup>2</sup> flask)	3-5 mL
6 wells (or 35 mm dish)	1 mL
12 well	500 $\mu$ L

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

2. Incubate the plate for 1-2 hours at 37 °C.
3. Remove excess reagent. Rinse the wells three times with cell culture medium.
4. Plate cells on Poly-L-Ornithine-coated dish.