

Poly-L-Ornithine Solution (0.01%)



Cell Culture Reagent

Cat. # A-004-C

FOR RESEARCH USE ONLY
NOT FOR USE IN DIAGNOSTIC PROCEDURES
NOT FOR HUMAN OR ANIMAL CONSUMPTION

pack size: 100mL

Store at -20°C

Certificate of Analysis

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Background

Poly-L-Ornithine is a synthetic amino acid chain that is positively charged having one hydrobromide per unit of ornithine. Poly-L-Ornithine is widely used as a coating to enhance cell attachment and adhesion to both plasticware and glass surfaces. Poly-L-Ornithine is often used in combination with laminin for many types of neuronal and neural stem cell cultures.

The molecular weight of Poly-L-Ornithine for cell culture can vary significantly, with lower molecular weight (30,000 Da) being less viscous and higher molecular weight (>300,000 Da) having more binding sites per molecule. This product uses a Poly-L-Ornithine of 78000 Da, yielding a solution viscosity for easy handling while providing sufficient binding sites for cell attachment.

Molecular Weight

78000 Da.

Appearance

Solution is clear and free of particulates.

Presentation

Product is presented in sterile water at 0.01% w/v (0.1mg/ml).
Product is filtered through a 0.2 micron filter before freezing.

Quality Control Assay

Solution is clear with no particulates present. Solution is sterile and suitable for cell culture applications.

Storage and Handling

Store at -20°C for up to 4 months from date of receipt. Avoid multiple freeze thaw cycles to maintain product integrity.

Suggested Coating Protocol

Optimal coating concentrations must be determined by end user. Typical coating concentrations range from 10ug/ml to 100ug/ml based on cell type and application.

1. Thaw Poly-L-Ornithine solution at room temperature.
2. Dilute Poly-L-Ornithine solution to desired concentration in sterile water.
3. Fully coat the cell culture surface with diluted Poly-L-Ornithine solution. Use 5 mL volume for 6-cm plates and 10 mL volume for 10-cm plates and T75 flasks.
4. Allow cell culture vessel to sit at room temperature overnight.
5. Aspirate the Poly-L-Ornithine solution the following day and rinse vessel with sterile water followed by coating with desired ECM protein.

SPECIES LEGEND: H Human Ca Canine M Mouse R Rat Rb Rabbit B Bovine P Porcine WR Most Common Vertebrates

Please visit www.millipore.com for additional product information and references.

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RELATED PRODUCTS

cat #		description
A-003-E	■	Poly-D-Lysine solution, 1.0 mg/mL
A-005-C	■	Poly-L-Lysine Solution (0.01%)
CC095	■	Laminin, mouse purified
AG56P	■	Human Laminin (pepsinized) Purified Protein
FC010	■	Human Plasma Fibronectin Purified Protein
CC080	■	Vitronectin, Human Purified Protein
SCC008	■	ReNcell VM Human Neural Progenitor Cell Line
SCR022	■	Adult Rat Hippocampal Neural Stem Cells

■ antibodies ■ Multiplex products ■ biotools ■ cell culture ■ enzymes ■ kits ■ proteins/peptides ■ siRNA/cDNA products

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