



Data Sheet

Research Use Only

Product Name

Poly-D-Lysine (0.1 mg/mL), 5 mg

Catalog Number

AP17

Description

Poly-D-Lysine is a synthetic amino acid chain that is positively charged and widely used as a coating to enhance cell attachment and adhesion to both plasticware and glass surfaces. The molecular weight of Poly-D-Lysine can vary significantly with lower molecular weight (30 kDa) being less viscous and higher molecular weight (>300 kDa) having more binding sites per molecule. This product's molecular weight ranges from 70 to 150 kDa yielding a solution viscosity for easy handling while providing sufficient binding sites for cell attachment.

Source

Synthetic

Molecular Weight

70 to 150 kDa

Cell Attachment Assay

Pass

Sterility Testing

No growth

Storage

4 °C

Sterilization

Irradiation

Coating Procedure

Note: Use these recommendations as guidelines to determine the optimal coating conditions for your culture system. To maintain sterility, perform all operations in a laminar flow hood.

1. A typical working concentration is 0.1 mg/mL. If a different concentration is desired, transfer desired volume of solution from the bottle to a dilution vessel. Dilute to desired concentration using tissue culture grade water or PBS.
2. Add appropriate amount of diluted material to culture surface. Typically, 1 mL per 25 cm² is used. Rock gently to ensure uniform coating of culture surface.
3. After 5 minutes, remove excess solution by aspiration.
4. Thoroughly rinse surface with tissue culture grade water.
5. Incubate and allow to dry at room temperature or 37°C, covered, for at least 2 hours.
6. Introduce medium and cells to the culture surface.
7. Store remaining Poly-D-Lysine at 2 to 10°C.