

Poly-D-Lysine-coated Products

Poly-D-Lysine serves as a positively charged extracellular matrix, fostering nonspecific cell attachment. Upon application to solid-phase culture surfaces, it heightens the electrostatic interaction between negatively charged ions on the cell membrane surface and positively charged ions on the culture surface. This enhancement bolsters cell attachment rates in serum-free or low-serum culture settings and reinforces the absorption of serum proteins and extracellular matrix proteins onto the culture surface.

Jet Biofil's Poly-D-Lysine-coated Products are available in a variety of forms, including culture plates and dishes. The product surface is pre-coated with Poly-D-lysine, which facilitates the attachment growth, proliferation and differentiation of cells that are difficult to culture, such as neurons, glial cells and transfected cell lines.

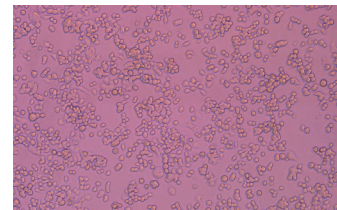
Specification: Poly-D-Lysine-coated culture plates (6-well, 12-well and 24-well)
Poly-D-Lysine-coated culture dishes (35 mm, 60 mm and 90 mm)



- ◆ Primary neuronal culture
- ◆ Culture of transfected cell lines with low adherence capability
- ◆ Neuronal differentiation and axonal culture
- ◆ Glial cell culture
- ◆ Culture of cells under serum-free or low-serum conditions
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Features:

- ◆ Utilizing premium poly-D-lysine characterized by a molecular weight ranging from 75 to 150 kDa, boasting high viscosity and robust cell attachment properties
- ◆ Enhance the attachment, growth, and specialization of challenging cell types, such as neurons, in culture
- ◆ Synthetic poly-D-lysine aims to prevent the stimulation of biological activity resulting from the introduction of natural polymers, impurity proteins, and similar factors
- ◆ Following validation through diverse cell culture tests, the attachment rate of cells surpasses 90%, with the viability of attachment cells exceeding 95%
- ◆ We offer a range of pre-coated poly-D-lysine product forms ready for use, catering to diverse testing requirements of our customers
- ◆ Lot number of each package bag is printed to ensure quality traceability
- ◆ Sterilized by irradiation, SAL10⁻⁶, DNase/RNase-free, and non-pyrogenic



Inoculate PC-12 cells onto a poly-D-lysine-coated 24-well cell culture plate at a density of 5x10⁵ cells/well. After 24 hours, observe under a microscope. The cell morphology appears normal, exhibiting an attachment rate surpassing 90% and the viability of attachment cells exceeding 95%.

Ordering Information:

Cat. No.	Product Name	Specification	Surface	Sterile	Qty./Bag	Qty./Case
TCP040006	Culture plate	6-well	Poly-D-lysine Coated	Y	1	60
TCP040012	Culture plate	12-well	Poly-D-lysine Coated	Y	1	60
TCP040024	Culture plate	24-well	Poly-D-lysine Coated	Y	1	60
TCD040035	Culture dish	35mm	Poly-D-lysine Coated	Y	5	80
TCD040060	Culture dish	60mm	Poly-D-lysine Coated	Y	5	80
TCD040090	Culture dish	90mm	Poly-D-lysine Coated	Y	5	80

Storage instructions: Store product in dry environment between 4–30°C away from direct sunlight. The product has a shelf life of 2 years.

