

## 10X Poly-L-lysine Solution Catalog No:RC0008

### Product Information

The main component of 10X Poly-L-lysine Solution is polylysine, which is a polycation formed by the polymerization of lysine monomers. 10X Poly-L-lysine Solution effectively promotes the adhesion of cells to coating materials by changing the electrodes on the surface of the culture medium, thereby enhancing the adhesion of tissues or cells to culture bottles. It is a commonly used cell adhesive in cell culture.

EnkiLife's 10X Poly-L-lysine Solution is made of high-quality cell-grade raw materials and ultrapure water. It has passed sterile treatment and usage testing. It is mainly used for coating culture containers (cell slides, culture plates, confocal culture dishes, etc.) in cell culture to improve cell adhesion efficiency.

### Basic information

Product form	Colorless transparent liquid
Size	10ml
Concentration	10X (the dilution ratio can be adjusted according to experimental needs)
Solvents	10mM PBS buffer
Storage	2-8°C
Transportation	2-8°C
Validity	12 months (the diluted poly-L-lysine solution should be stored at 2-8°C and it is recommended to be used up within 3 months)

### Operation steps

- 1.Dilution: Pipette the required amount of coating solution under sterile conditions and dilute it with sterile water at a ratio of 1:10, i.e., add 1 mL of coating solution to 9 mL of sterile water and mix before use;
- 2.Coating: Place the culture flask in a 37°C incubator for 1-2 hours. The reference amount of coating solution used for different culture containers (to ensure uniform distribution and not completely dry during the coating process) is as follows:

Culture vessels	Reference doge after dilution
12-well plate	0.5ml
6-well plate	0.8-1ml
6cm culture dish	1-1.5ml
10cm culture dish	3ml
T25 culture flask	1-2ml

Take out the culture bottle and suck out the excess coating liquid. The excess coating liquid can be reused 3-4 times. Cover the culture bottle and put it in the incubator for more than 4 hours. Try to ensure that the bottom of the culture bottle is dry and free of liquid. If it is not used temporarily, the culture bottle with the coating liquid sucked out can be covered and sealed at 4°C for storage (it is recommended to be used within one week. Long storage time may affect the use effect).

3.Washing: Take out the coated culture bottle, add 10mL PBS to rinse the culture bottle and repeat 2-3 times to remove the residual free coating solution components;

4.Inoculation: Inoculate the cells into the coated culture flask and observe the cell growth status under a microscope the next day.

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**Notes**

- 1.This product has been sterilized by filtration. When using it, please pay attention to aseptic operation to avoid contamination.
- 2.The coating solution concentration can be determined according to the experimental needs. Generally, a 1:10 dilution is recommended. For special cells, the coating concentration may need to be increased according to the culture effect. If the coating solution is turbid or contaminated after use, it needs to be discarded.
- 3.This product is For Research Use Only, Not for Diagnostic Use.