Gelatin coating solution (1 mg/mL)

Cat.No.：PB180535

Size：10mL

Product Description

Gelatin is derived from natural extracellular matrix (ECM) components.It has become a highly sought after material for tissue engineering applications due to its low cost, abundance and retention of natural cell-binding motifs.Gelatin solutions have thermally reversible gelling properties, enabling the synthesis of biocompatible and biodegradable hydrogels and promoting cell adhesion, spreading and proliferation.

Gelatin coated solution is used in the culture vessel coated during the cell culture process to promote cell adhesion.For some cells with weak adhesion ability, it can help to extend cell morphology and reduce cluster growth.

In the culture process of embryonic stem cells, induced pluripotent stem cells, primary embryonic fibroblasts, and mesenchymal stem cells induced lipogenesis, osteogenesis, and chondroblast induced differentiation experiments, it is recommended to use this product to pre-pack culture bottles, petri dishes or culture pore plates to obtain better culture results.

General Information

Form	Liquid
Concentration	1 mg/mL
Size	10 mL
Storage Conditions	2-8℃
Transport Conditions	Ice bag
Expiration Date	12 months

Use Instructions

1. When pre-coating is required for cell culture and cell experiment to promote cell adhesion, this product can be used directly without dilution.

   Note: If used in other experiments, it can also be diluted to the working concentration with sterile water according to the experimental requirements.
2. The sterile, clean culture vessel was added to cover the entire bottom of the vessel with a little more gelatin coating.
3. After the culture vessel is added with gelatin coating solution, it will be placed in an incubator at 37℃ with saturated humidity for 30 minutes.

   Note: The coating time was usually 5 min-2 h. It can be appropriately extended or reduced according to the actual cell adhesion.The coating time of some experiments even required overnight.
4. After the coating is completed, the excess gelatin coating solution is removed and dried in the ultra-clean table for several minutes until it is completely dry.

   Note: If time was running out, the experiment should not be carried out without drying after extracting excess gelatin. Drying was usually more conducive to subsequent cell adhesion.
5. Without cleaning, cells can be directly inoculated for cell culture or other experiments.

Notes

1. Bubbles should be avoided during gelatin addition. they will lead to uneven gelatin spread, and even vacancies in some places, which is not conducive to the adhesion of subsequent cells.

2. The amount of coating solution depends on different culture vessels. Generally, it is ensured that the bottom of the culture vessel is completely covered, and the coating should not be dried within the time.
3. This product has been filtered and sterilized.Pay attention to aseptic operation to avoid contamination.
4. Gelatin coating liquid is easy to form jelly at low temperature. It can be used normally after incubation and dissolution at 25-37℃.
5. For your safety and health, please wear disposable sterile gloves.