



## 0.1% Gelatin

*From porcine skin (Type A) & cell culture grade*

**Catalog number: ST03004**

**Size: 100 ml**

Gelatin is a heterogeneous mixture of water-soluble proteins of high average molecular weights, present in collagen. The proteins are extracted by boiling skin, tendons, ligaments, bones, etc. in water. Type A gelatin is derived from acid-cured tissue. Type B is derived from lime-cured tissue.

Gelatin has been used in many applications. It has been applied in coating cell culture plates or flasks to improve attachment of cells, being added to PCR to stabilize Taq DNA polymerase, as a blocking reagent in Western blotting, ELISA, and immunochemistry, and as a component of culture media for species differentiation in bacteriology. As a biocompatible polymer, it has been used as a delivery vehicle for release of active biomolecules and in generation of scaffolds for tissue engineering applications. It has also been used to study long-chain fatty acid-induced changes in gene expression in neonatal cardiac monocytes and to study to test mobilization of capillary endothelium *in vitro* induced by effectors of angiogenesis *in vivo*.

### Product Description

Stemmera™ 0.1% Gelatin is a ready-to-use and cell culture tested solution for coating the surface of vessels to improve cell attachment for certain types of primary cells as well as certain continuous cell lines. This product is derived from porcine skin.

### Storage and Handling

Stemmera™ 0.1% Gelatin is shipped with blue ice pack. Store at 2-8°C upon arrival and until the expiration date stated on the product label. The solution should remain stable for two years from manufacturing date when stored as directed.

### Product Use

This product is intended for *in vitro* use and research use only, not for drug, household, or other uses. Not intended for human or animal diagnostic or therapeutic uses as well.

### General Precautions

1. Use aerosol barrier tips. Change tips after each use.
2. Always use fresh, clean gloves and wear lab coats.
3. Material Safety Data Sheet (MSDS) is available online.
4. Clean working space with 70% ethanol or other suitable disinfectant.

### Protocol

#### Preparing Gelatin-Coated Tissue Culture Vessels

For optimal cell attachment, cell culture vessels should be prepared before plating the cells.

1. Decontaminate the external surface of the bottle by spraying with 70% ethanol.
2. Using aseptic technique and working in a laminar flow hood or biosafety cabinet, add 1.0 mL of 0.1% Gelatin Solution per 10 cm<sup>2</sup> of culture surface area (e.g., 2.5 mL if using a T-25 flask).
3. Rock culture vessels to coat surface; place in a 37°C incubator for at least 30 minutes, and up to overnight.
4. Aspirate the excess gelatin solution from the culture vessels using sterile technique.
5. Add 1.0 mL of complete growth medium per well of 6-well plate (e.g., 5.0 mL if using a T-25 flask).
6. Equilibrate the gelatin-coated vessels in a 37°C, 5% CO<sub>2</sub> incubator for at least one hour.
7. Plate the cells in gelatin-coated vessels and place the vessels in a 37°C, 5% CO<sub>2</sub> incubator overnight.

### Warranty and Limited Liability

Stemmera™ will not be liable for any damage caused by misuse, improper handling and storage of the product, non-compliance with precautions and procedures, and damages caused by events occurring after the product is released.





**Related Products**

<b>Product</b>	<b>Cat #</b>	<b>Size</b>
Alkaline Phosphatase Detection Kit (Ready-to-Use) - Blue	ST01001	50 tests
Alkaline Phosphatase Detection Kit (Ready-to-Use) - Red	ST01002	50 tests
Human Fibroblast (hFIB) Reprogramming Kit	ST01003	5 tests
Human ESCs/iPSCs Serum-M/Feeder –free Medium (hStemSFM)	ST02001	500 ml
Human ESCs/iPSCs Xeno-Free Medium (hStemXFM)	ST02002	500 ml
Human Fibroblast (hFIB) Reprogramming Medium	ST02003	500 ml
Non-Enzymatic Cell Dissociation Solution (1X)	ST03001	100 ml
Serum-Free Cryopreservation Solution for Human ESCs/iPSCs	ST03002	50 ml
0.2% Gelatin	ST03003	100 ml

**Technical Support**

For more product and technical information, please visit our website at [www.stemmera.com](http://www.stemmera.com).

For further assistance, email your inquiries to our Technical Support team at [techsupport@stemmera.com](mailto:techsupport@stemmera.com).

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