Product Specification Sheet

Product Name	**EZStem™ Gelatin Solution (1X)**
Description	EZStem™ Gelatin Solution is a mixture of peptides and proteins produced by partial hydrolysis of collagen extracted from animals' skin and bones. Mouse ES cells are grown on a layer of gelatin as an extracellular matrix (for support) and require the presence of leukemia inhibitory factor (LIF). Human ES/iPS cells are grown on a feeder layer of mouse embryonic fibroblasts (MEF) and require the pretreatment of the plate with EZStem™ Gelatin.
Catalog Number	M500
Size	100 ml
Shipping	Ambient Temperature
Storage and Stability	Store at 4° C upon receiving. This product is stable for 6 months when stored as directed.
Quality Control	EZStem™ Gelatin Solution is tested for sterility.
Restricted Use	For Research Use Only. Not for use in diagnostic or therapeutic procedures.

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Protocol (M500)

Coating Multi-well Plates with EZStem™ Gelatin Solution (1X)

Overview

This protocol can be used for coating flasks or plates with EZStem™ Gelatin Solution (1X). Gelatin Solution is intended for coating cell culture flasks or plates used for the growth of Mouse ES cells without a feeder layer and with the addition of Leukemia Inhibitory Factor (LIF) to the culture medium. When human ES/iPS cells are grown on a feeder layer of mouse embryonic fibroblasts (MEF), it is suggested to coat the flasks/plates with Gelatin Solution.

Procedure

1. Warm EZStem™ Gelatin Solution (1X) to room temperature prior to use.
2. In a culture hood, under sterile conditions, add Gelatin Solution to each well of the plate as suggested in the table below.
   Note: Add enough Gelatin Solution to adequately cover the plasticware surface.
3. Incubate the plate at least 30 minutes at 37° C or at room temperature.
4. Aspirate the Gelatin Solution. Immediately add media and cells to the dish.
   Note: Do not allow the dishes to dry before adding cells.

When using EZStem™ Gelatin Solution to coat multi-well plates/dishes, add the following amounts:

Plate or Dish	Amount / Well
96-well	100 µl
48-well	300 µl
24-well	0.5 ml
12-well	1 ml
6-well	1.5-2 ml
30 mm	1.5-2 ml
60 mm	3 ml
100 mm	4-5 ml

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