

Coating Plates with Matrigel

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Coating plates with Matrigel for ES/iPS culture

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1 Works for me

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ABSTRACT

This protocol is about coating plates with matrigel.

ATTACHMENTS

[CoatingplateswithMatrigel.pdf](#)

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KEYWORDS

coating, matrigel, iPS, ES culture

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MATERIALS TEXT

Required Materials

- 1X PBS
- culture dishes
- Matrigel

SAFETY WARNINGS

For hazard information and safety warnings, please refer to the SDS (Safety Data Sheet).


1 Chill **[M]1 X PBS** **⌚ On ice** .

Skip this step if you have PBS in the fridge already.

2 Take culture dishes you want to coat out of their package and place them inside a tissue culture hood.

3 Thaw desired number of Matrigel aliquots either **⌚ On ice** or at **⌚ Room temperature** .

Keep in mind that matrigel will solidify at room temperature. So if you thaw matrigel at room temp, you want to make sure to proceed to the next step before the gel is warmed up to room temperature. You can proceed to the next step even if there is still a little some frozen matrigel in the tube. PBS should thaw them quite quickly.

4 

Resuspend matrigel with chilled PBS. You want to use **📏25 mL PBS** per **📏2 mg matrigel** .

5 

Make sure the matrigel is well mixed in the PBS. Then aliquot proper volume into each culture dish. You will need **📏6 mL** per 10 cm dish, **📏1 mL** per well of a 6 well plate, **📏0.5 mL** per well of a 12 well plate. Swirl plate to coat all the surface.

6 These plates are ready to use after **🕒01:00:00** at **⌚ Room temperature** . Depending on the storage space **1h** situation. You can keep these plates in a **⌚ 37 °C** tissue culture incubator, somewhere clean at **⌚ Room temperature** or in the fridge. As long as they are kept sterile and the solution is not dried out, they are good for a couple months. Dried out plates have to be either discarded or re-coated.

7 

1h

After **🕒01:00:00** , add **📏2 mL fresh 1xPBS** on top to avoid the wells from drying out.