

Corning® Matrigel® Matrix Handling Tips



Performance | Quality | Safety

With 13,000+ citations and counting, Corning Matrigel matrix is the most trusted and widely used extracellular matrix. Here are tips to ensure success in your 2D or 3D applications.

How to STORE

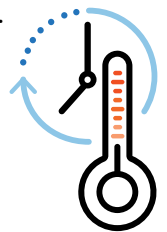


- Don't store in a frost-free freezer, on a freezer door, or in a frequently opened freezer
- Aliquot into freezer-compatible tubes after the first thaw. Then store at -70°C or -20°C .
- Long-term storage of post-thaw/diluted Matrigel matrix is not recommended.
- Frozen Matrigel matrix keeps for 2 years from the date of manufacture.



How to THAW

- Matrigel matrix will start to gel above 10°C .
- Thaw overnight at 2°C to 8°C , ensuring ice surrounds the vial.
- Cover the ice bucket and place it in a cold room or the back of a refrigerator during thawing.



How to DILUTE

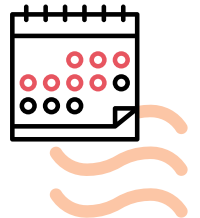


- Pre-chill pipet tips, media, and labware that will be in contact with Matrigel matrix.
- Use positive displacement pipets.
- Dilute thawed Matrigel matrix by adding it to ice-cold serum-free medium or PBS. On ice, gently swirl or pipette up and down for even distribution.
- Always dilute Matrigel matrix based on protein concentration and not on a standard volume dilution.



How to COAT SURFACES

- For cell attachment and proliferation applications: Use a thin Matrigel matrix layer. Coat surfaces with at least $50\ \mu\text{L}/\text{cm}^2$ Matrigel matrix.
- For 3D cell culture applications: Use a thick Matrigel matrix layer with at least 150 to $200\ \mu\text{L}/\text{cm}^2$ Matrigel matrix, or form 3D domes with $50\ \mu\text{L}$ of Matrigel matrix with at least $7\ \text{mg}/\text{mL}$.
- While coating vessels, keep them on ice on a Corning CoolRack® or CoolBox™ module.
- When forming 3D domes, pre-incubate and keep the TC-treated vessel warm to help the dome polymerize before transporting to the incubator.



Matrigel matrix has contributed to life science discovery for over 30 years. Many Matrigel matrix formulations are designed for a wide variety of applications, and is also available in convenient pre-dispensed plate formats.

For more tips, download the [Ultimate Guide to Corning Matrigel Matrix](#)

www.corning.com/matrigel

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