

PEGDA Vial, 1 mL

Catalog Number: GS711

OVERVIEW

PEGDA (poly ethylene glycol diacrylate, Mw=3350) is packaged 100mg aliquots. Vials are blanketed by nitrogen and under a slight vacuum.

STORAGE

PEGDA: Store PEGDA in the original vial unopened at -20°C for up to one year. Reconstituted PEGDA solutions can be stored at -20°C for ~ one month.

Note: When altering this protocol gelation time and hydrogel stiffness vary depending upon the concentration of PEGDA, the concentration of PEGcure, and the duration of time exposed to UV radiation. Hydrogels made using only PEGDA and PEGcure will not support cell attachment.

INSTRUCTIONS FOR USE

PEGDA is prepared by dissolving the lyophilized solid in the DG Water; 1.0mL of DG water yields a 10% (w/v) solution. Typically, PEGDA is used with Ciba PEGcure Photoinitiator as a curing agent. PEGDA hydrogels (1 mL) should be prepared in the following manner:

1. Allow the PEGDA, PEGcure and DG Water to come to room temperature.
2. Under aseptic conditions add 1.0 mL of DG Water to the PEGDA vial for a 10% (w/v) solution.
3. Invert several times to dissolve. The solution will be clear and slightly viscous.
4. Under aseptic conditions remove the 10% PEGDA solution from the vial and add entirely to the PEGcure vial. Place the vial on a rocker or shaker and allow solids to completely dissolve (approximately 10-20 minutes). The resulting solution will be 10% (w/v) PEGDA and 0.1% (w/v) PEGcure.
5. Keep solution protected from light until ready to crosslink. Pipette solution into desired format (i.e. 96 well plate) and expose to UV light (wavelength 365 nm) for 15 minutes to form gels.
6. Hydrogel properties may vary depending on time of exposure and type of UV light. Ensure the UV light is in close proximity to the hydrogel solution.
7. Freeze unused PEGDA solution at -20 °C and protected from light.

Note: Product has been manufactured under aseptic conditions and tested for bacteria and fungus.

PRODUCT WARRANTY

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