

## Step by step user guide on how to use OkaGel liquid from the box to usable application

### Protocol:

1. Choose the appropriate model required. Note that LAP, Irgacure, and Eosin Y require different wavelengths of light to be activated.
2. Calculate the volume of GelMA and the volume of the photoinitiator needed to achieve the desired concentrations.
3. Transfer the photoinitiator to the OkaGel liquid with a sterile pipette or syringe. Handle in an area with appropriate exhaust ventilation.
4. Mix well for 15 minutes under heat (37°C) shielded from light.
5. Use immediately or store at 4°C protected from light for future use.
  - a. If stored at 4°C, warm the OkaGel solution to 37°C to liquefy and vortex to mix prior to use.
6. Use warm water to clean up OkaGel residue.

### Notes:

- Wear laboratory personnel protective equipment (eye protection, lab coat and gloves) when handling OkaGel.
- Store away from light and moisture, keep the container tightly closed.
- Avoid temperatures above 60 ° C and below freezing.

### References

- Loessner, D., Meinert, C., Kaemmerer, E., Martine, L., Yue, K., Levett, P., . . . Hutmacher, D. . Functionalization, preparation and use of cell-laden gelatin methacryloyl-based hydrogels as modular tissue culture platforms. *Nature Protocols*, 11(4), 727-746.(2016). Retrieved October 14, 2022 from 10.1038/nprot.2016.037.
- GelMA casting protocol - CELLINK. CellLink. (2018, October 3). Retrieved October 14, 2022, from <https://www.cellink.com/wp-content/uploads/2018/04/GelMACastingProtocolver1.pdf>
- Section 1. Identification - GelMA Co. The GelMA Company. (n.d.). Retrieved October 14, 2022, from <https://GelMAco.com/wp-content/uploads/2022/04/GelMA20Liquid20SDS.pdf>
- Viability report: Lap and Irgacure with GelMA. Allevi. (2020, March 14). Retrieved October 14, 2022, from <https://www.allevi3d.com/lap-and-irgacure-viability-with-GelMA/>