

Supplementary Information

Development of Gelatin Methacrylate (GelMa) Hydrogels for Versatile Intracavitary

Applications: *In-vitro* Characterization and *Ex-vivo* Performance Assessment

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Fig. S1: 3D surface plot represents the effect of GelMa and BIS concentrations on the gelling time. It can be concluded that both GelMa and BIS concentrations have no effect on gelling time.

Fig. S2: 3D surface plot represents the effect of GelMa and BIS concentrations on the injectability force (N). Increasing BIS concentration increases the force required for injecting precursor solutions of hydrogel formulations

Fig. S3: 3D surface plot represents the effect of Gelma, LAP, and BIS concentrations on the swelling index.

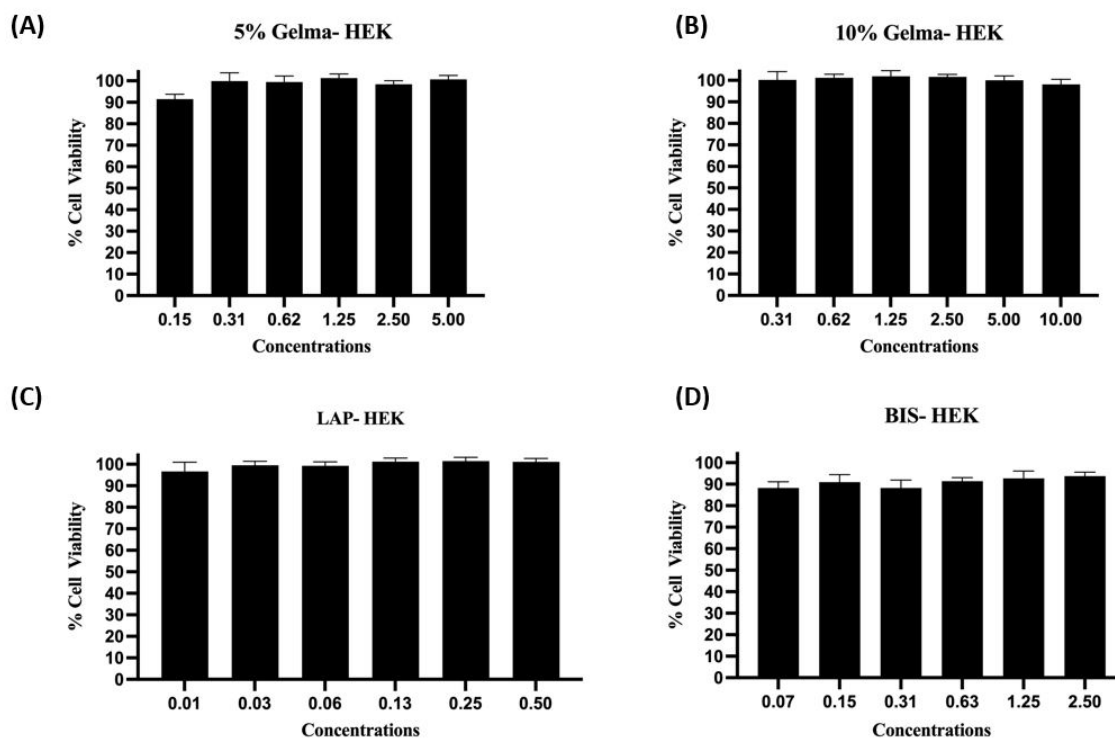


Fig. S4: Plots represents the toxicity profiles of individual hydrogel components on non-cancerous HEK-293 cells (24hrs).

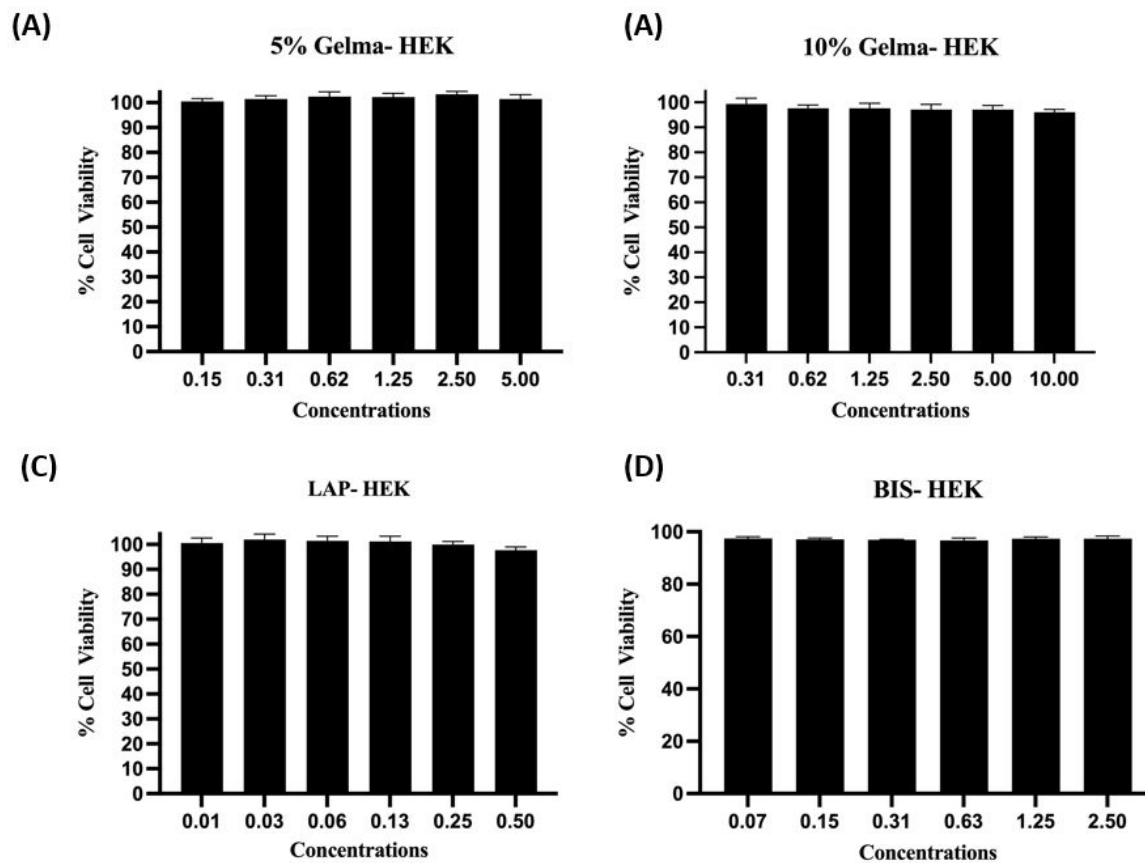


Fig. S5: Plots represents the toxicity profiles of individual hydrogel components on non-cancerous HEK-293 cells (72hrs).