

HyStem® Hydrogel UV QuickSet Kit

Easy-to-use hydrogels for bioprinting applications



- Enables faster, flexible gelation times
- Controlled by UV light
- Optimized for micro-scale bioprinting applications
- Maintains standard characteristics of other HyStem hydrogels

The fastest, ready-to-use, light-controlled hydrogels

As one of the first hyaluronic acid-based light-controlled hydrogels, the HyStem® Hydrogel UV QuickSet Kit supports 3D cell culture for use in tissue engineering and small scale bioprinting applications. The HyStem® Hydrogel UV QuickSet Kit provides increased temporal and spatial control making it ideal for micro-scale bioprinting. Gelation occurs after 30-60 seconds when exposed to ultraviolet light as compared to ~30 minutes using other hydrogel formulations.

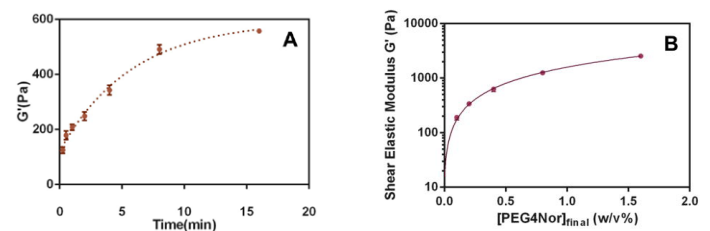


Figure 1. Rheometry experiments for shear elastic modulus (G') of hydrogel networks formed with Glycosil and Gelin-S at various ultraviolet light exposure times and substrate concentrations. **[A]** Time course with final concentration 0.2% w/v PEG norbornene and UV illumination for up to 15 min. **[B]** PEG norbornene dose response (final concentrations listed) with UV illumination for 3 minutes at each concentration.

References

Hynes, W.F., et al. (2014) Micropatterning of 3D Microenvironments for Living Biosensor Applications. *Biosensors* 4: 28-44.

ORDER INFORMATION

DESCRIPTION	SIZE	CAT. NO.	PRICE (\$)
HyStem® Hydrogel UV QuickSet Kit	2.5 mL	GS1007	\$85
	7.5 mL	GS1008	\$195

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