Supplementary information for:

Self-Sustaining Media-Reconstituted GelMA Bioink Supports Printable Hematopoietic Cultures

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Table S1: MegaCult™-collagen formulation per mL

Media Mix	Cells in IMDM	Collagen Solution
559.5 µL	49 µL	391.5 µL

Table S2: Power Law equation variables of consistency index (K) and flow index (n) from viscosity vs. shear rate in different hydrogel concentrations.

Condition	°C	K value	N value	R^2 coefficient
Collagen	37	0.253	-0.581	0.8392
2.5% H	15	7.648	-0.854	0.8111
3% H	19	16.406	-0.879	0.9464

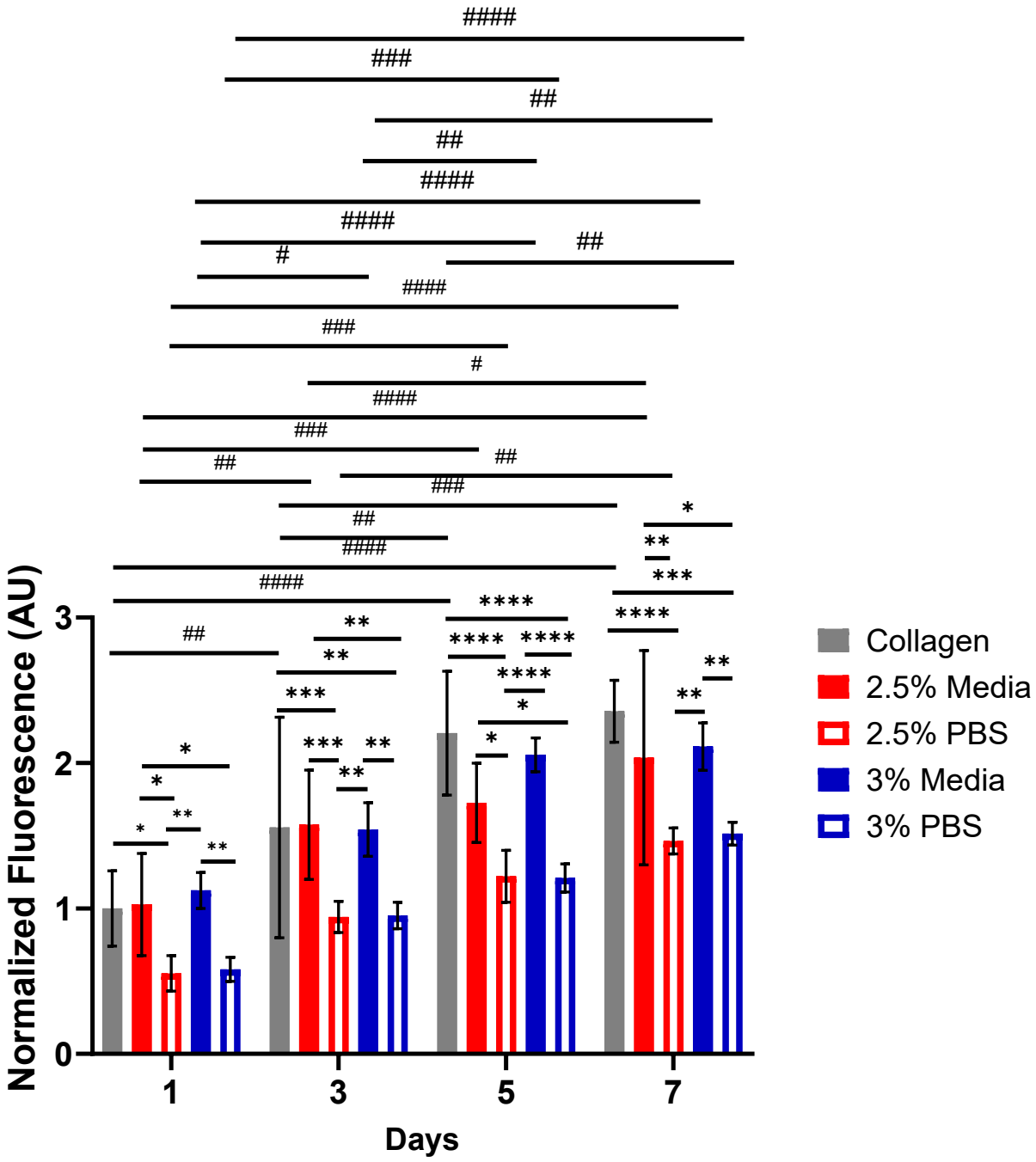

Figure S1: PrestoBlue analysis comparing reconstitution medium across a seven-day period, normalized to collagen day 1. * represents comparisons between groups in a single day, # represents comparisons between the same group across multiple days. Combined of Figure 1B.

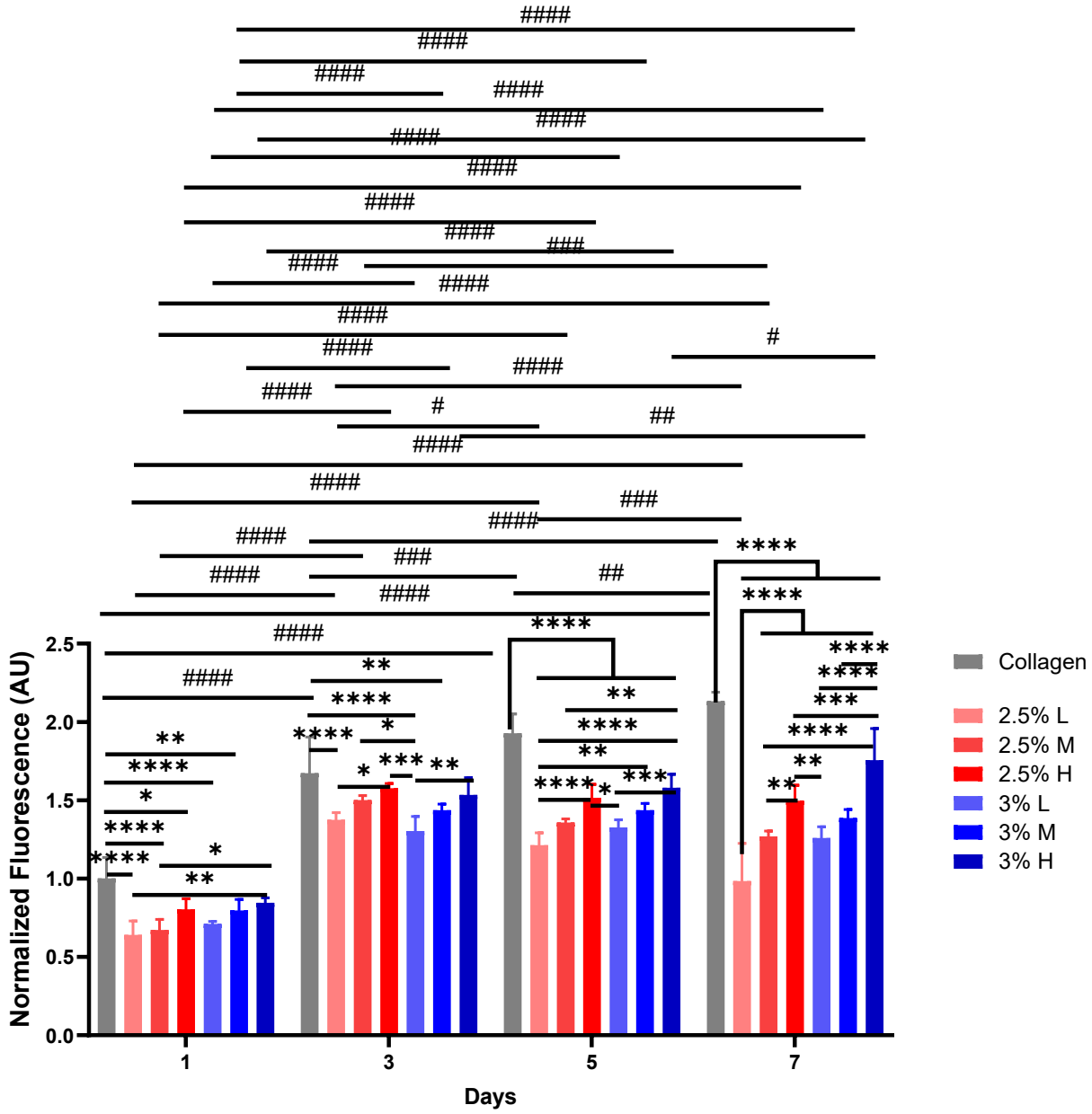

Figure S2: PrestoBlue analysis comparing degree of methacrylation across a seven-day period, normalized to collagen day one. * represents comparisons between groups in a single day, # represents comparisons between the same group across multiple days. Combined of Figure 1C

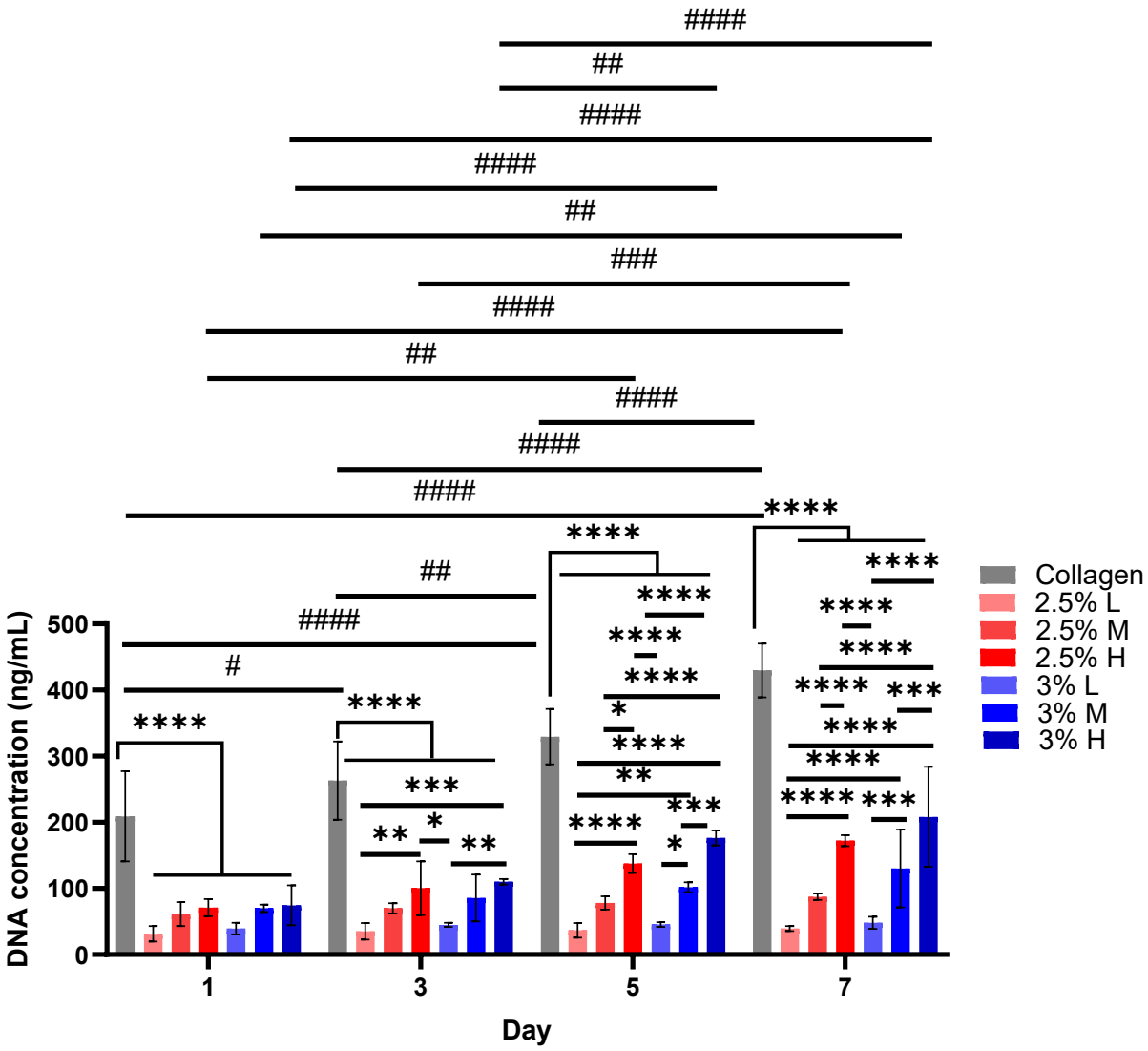

Figure S3: PicoGreen DNA quantification across the methacrylation groups over seven days., * represents comparisons between groups in a single day, # represents comparisons between the same group across multiple days. Combined of Figure 1D

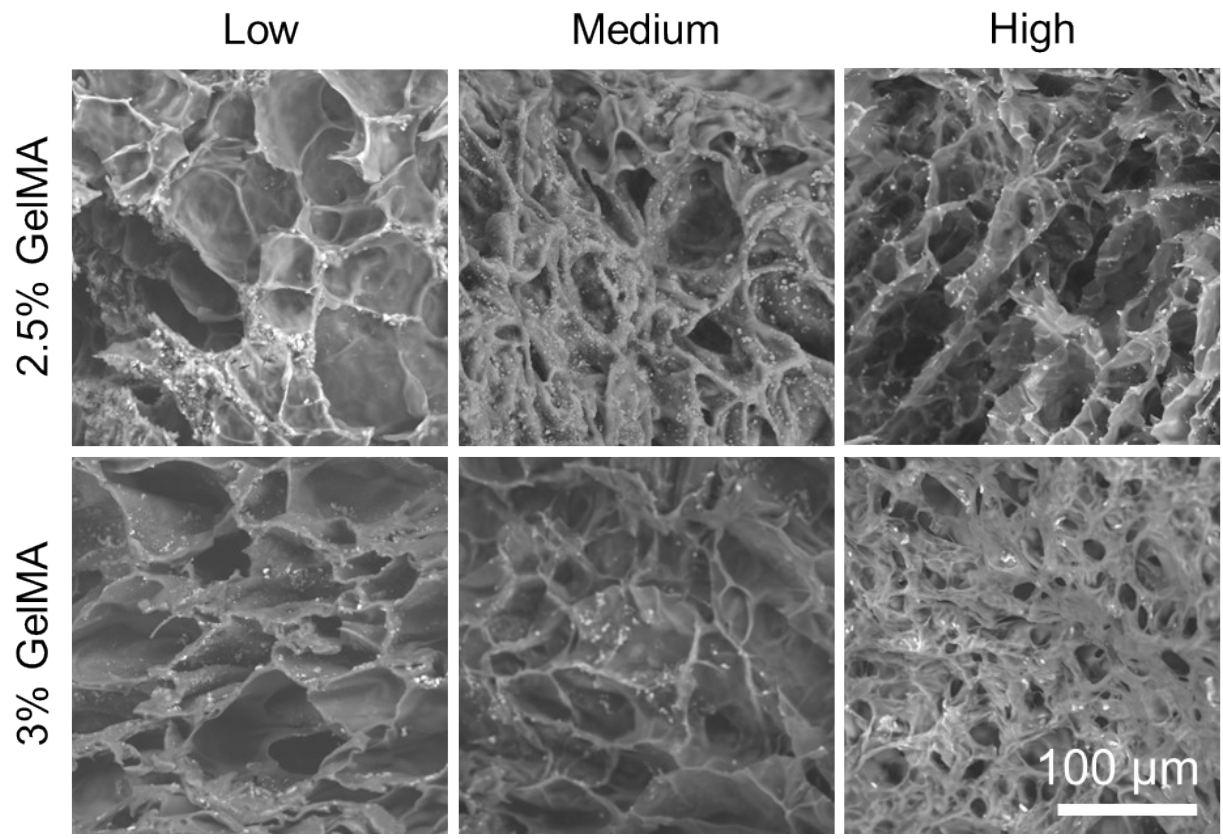

Figure S4: representative SEM analysis of GelMA constructs reconstituted in DPBS.

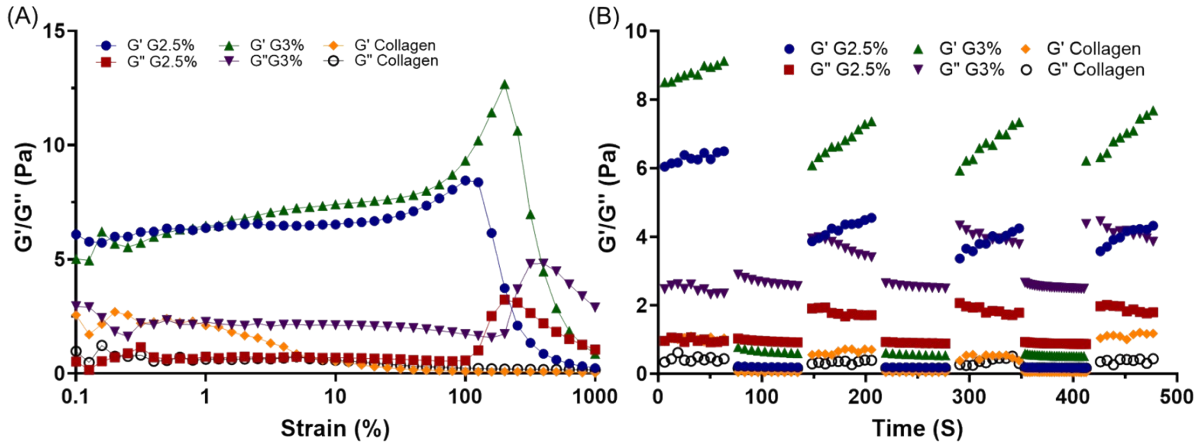

Figure S5 (A) Strain sweep of 2.5-3% w/v high methacrylated GelMA from 0.1-1000% strain. 1Hz (B) Shear recovery of 2.5%/3% high methacrylated GelMA alternating between one min periods of 1% and 1000% strain at a frequency of 1 Hz