

Supporting Information

Mn-Based Methacrylated Gellan Gum Hydrogels for MRI-Guided Cell Delivery and Imaging

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1. Rheological Characterization: Phase Angle and Shear Viscosity

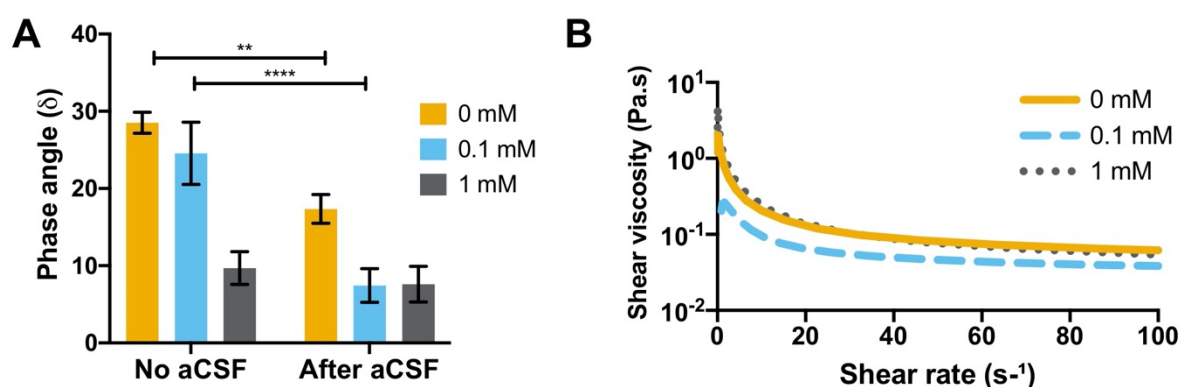


Figure S1 - Rheologic characterization of Mn-based hydrogels. A – Hydrogels phase angle before and after addition of aCSF. Results presented as average \pm SD of the last registered minute, of at least 3 different samples; ** represents statistical difference between sample of GG-MA only hydrogels (0 mM) before and after addition of aCSF with $p < 0.0022$; **** represents statistical difference between sample of GG-MA hydrogels supplemented with 0.1 mM MnCl₂, $p < 0.0001$; B – Shear viscosity of the different hydrogel formulations, along a shear rate ramp. Shear viscosity drastically decreases upon increasing on the shear rate. Results presented as average, $n=4$.

2. Biocompatibility: Injection with 18G needle

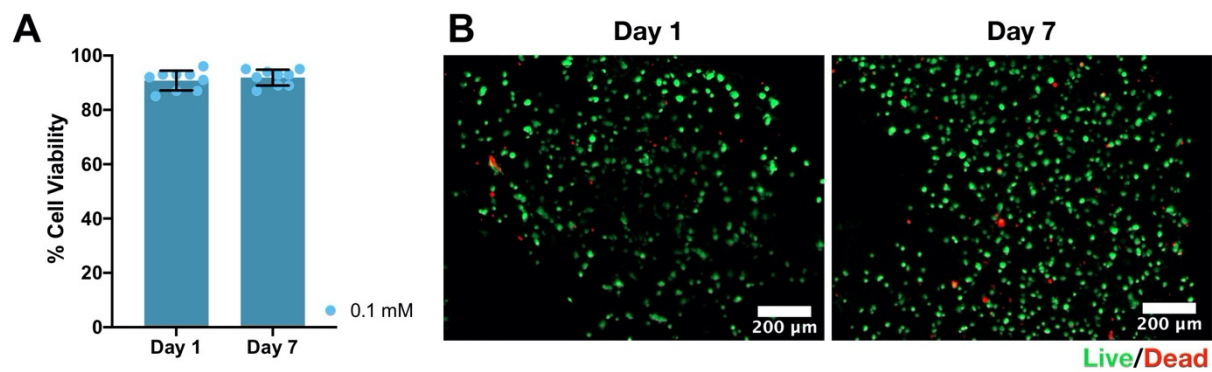


Figure S2 - Cell encapsulation in GG-MA hydrogel supplemented with 0.1 mM. A- Cell viability after 1 and 7 days of culture (average \pm SD, n=3); B - Fluorescence microscopy images of Live/dead staining after 1 and 7 days of incubation. Live cells showed as green and dead cells as red. Scale bar: 200 μ m.