

Figure S1. DSC thermogram of bijel-like samples: 10 mg/mL (yellow line), 20 mg/mL (yellow dotted line).

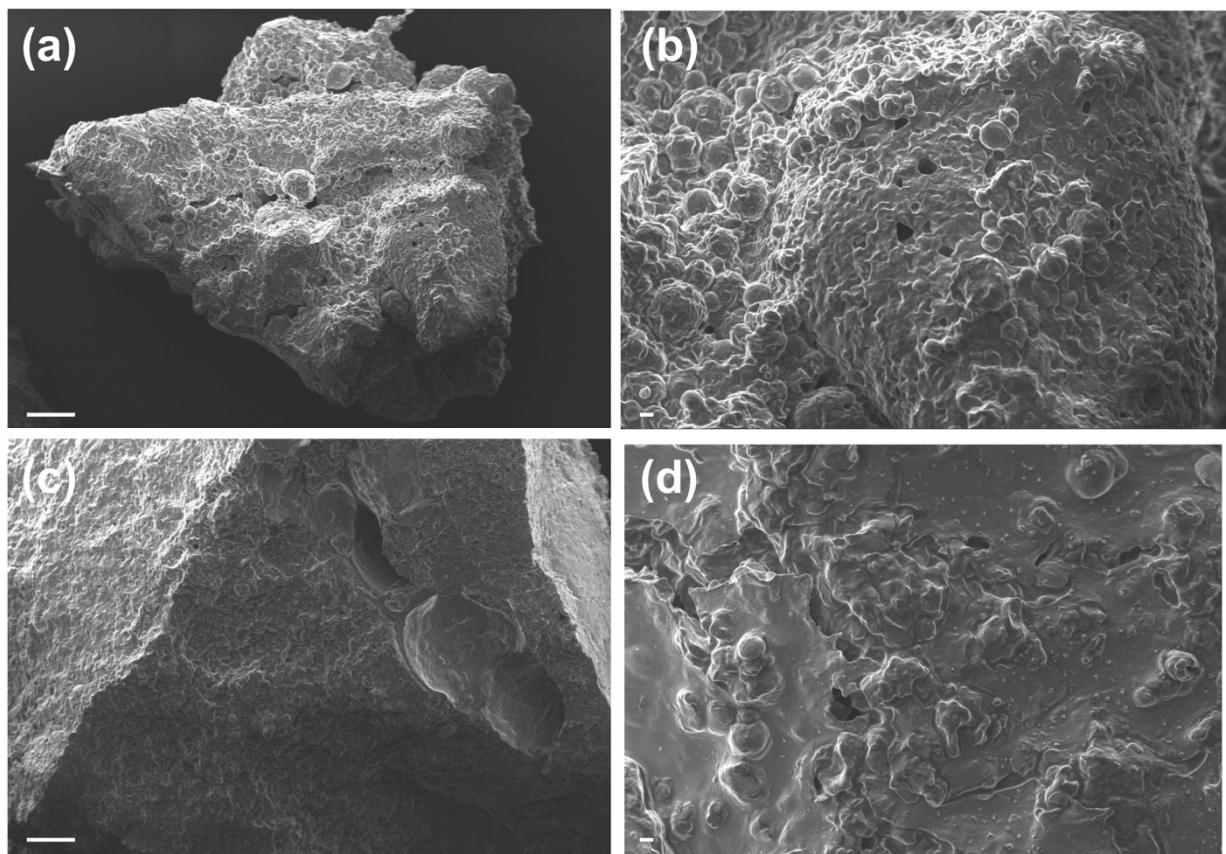


Figure S2. SEM images of different bijel samples. **a, b)** 20 mg/mL alginate not soaked in CaCl_2 (100 μm , **a**) (20 μm , **b**). **c, d)** 20 mg/mL alginate 3h soaked in CaCl_2 (100 μm , **c**) (20 μm , **d**).

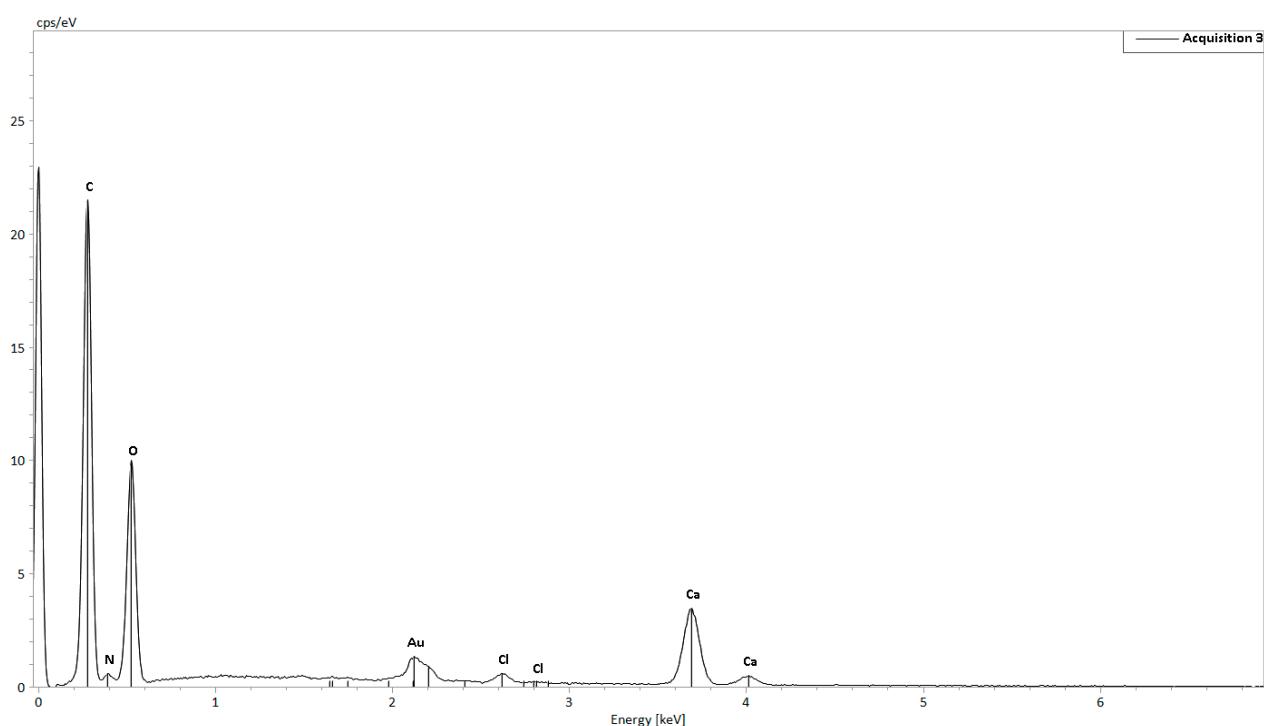


Figure S3. EDS analysis on bijel samples after soaking in CaCl_2 solution. The peaks related to the Ca and Cl are clearly visible, ensuring that the lumps observable through SEM analysis were CaCl_2 deposits.

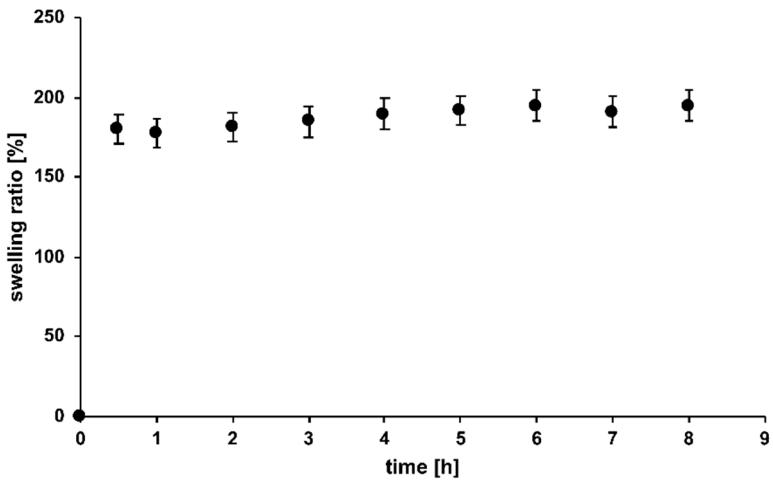


Figure S4. Swelling profile for dried bijel-like samples 20 mg/mL alginate.

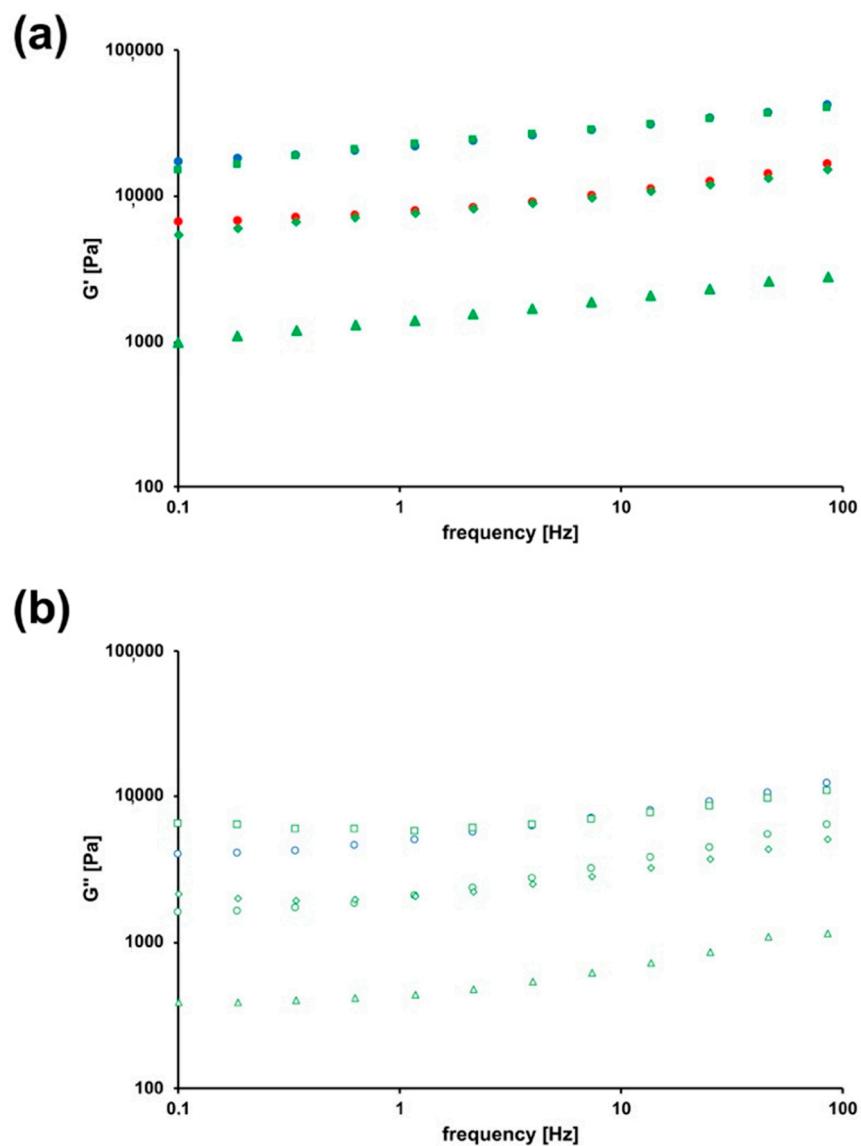


Figure S5. Frequency sweep tests for the 20 mg/mL samples: blank (blue circle), not soaked (red circle), 30 min soaking (green rhombuses), 3 h soaking (green squares) and 24 h soaking (green triangle).

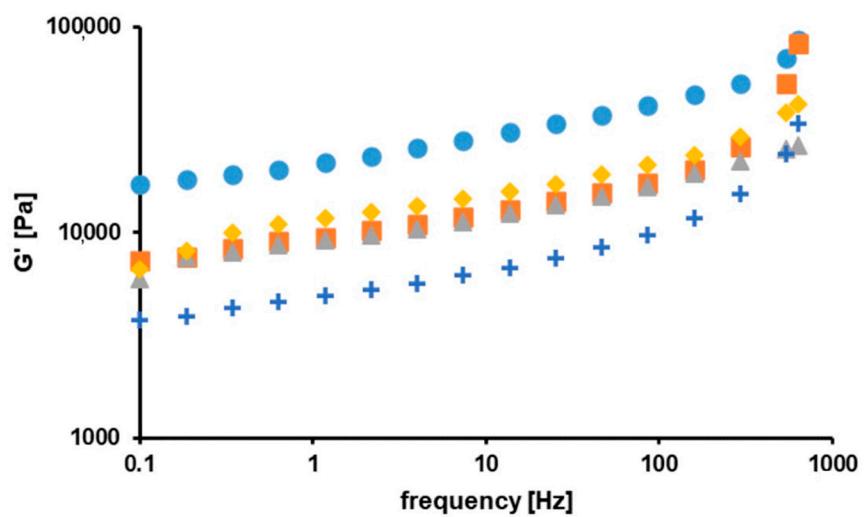


Figure S6. Frequency sweep tests for the 15 mg/mL sample. ○ blank, □ not soaked, Δ 30 min soaking, ◇ 3 h soaking and + 24 h soaking respectively.

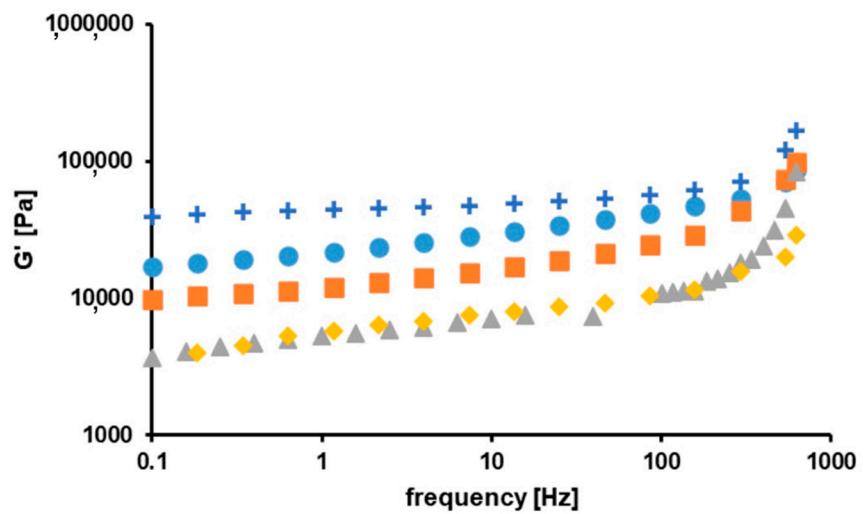


Figure S7. Frequency sweep tests for the 30 mg/mL sample. ○ blank, □ not soaked, Δ 30 min soaking, ◇ 3 h soaking and + 24 h soaking respectively.

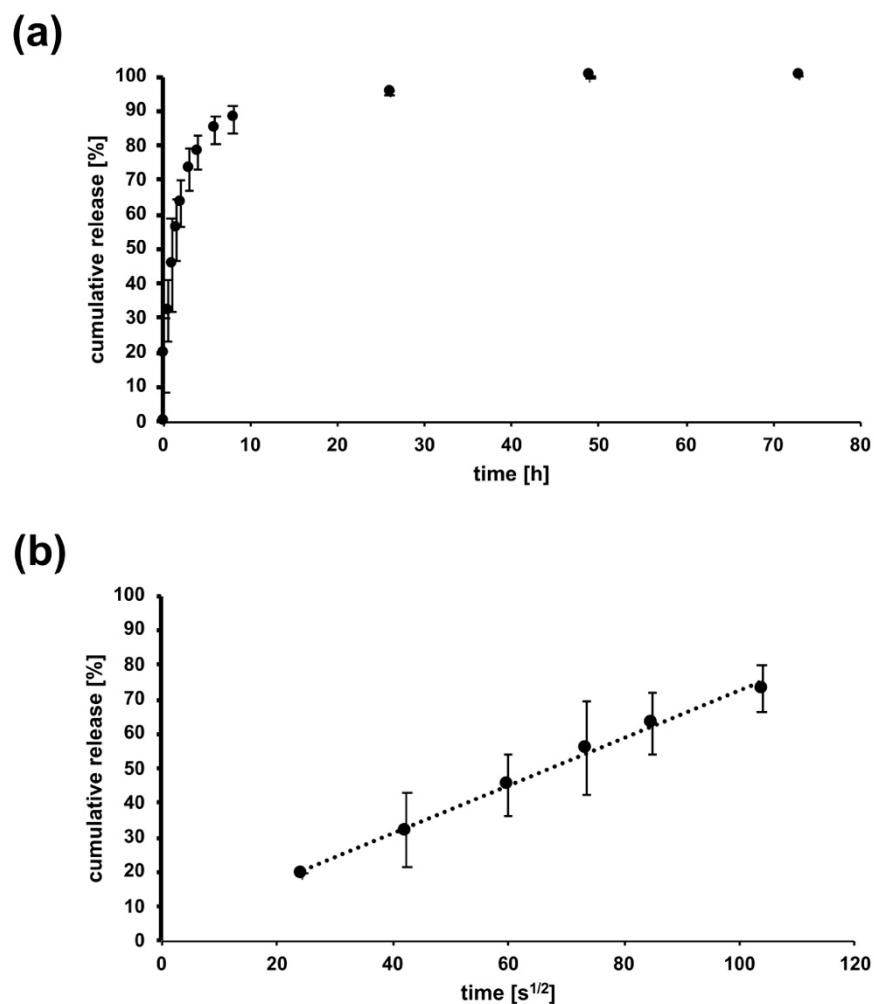


Figure S8. (a) Fluorescein release profile. (b) The slope of drug release against the square root of time is representative of Fickian diffusion coefficients for each sample ($p < 0.001$ between all groups): 20 mg/mL (black circle).

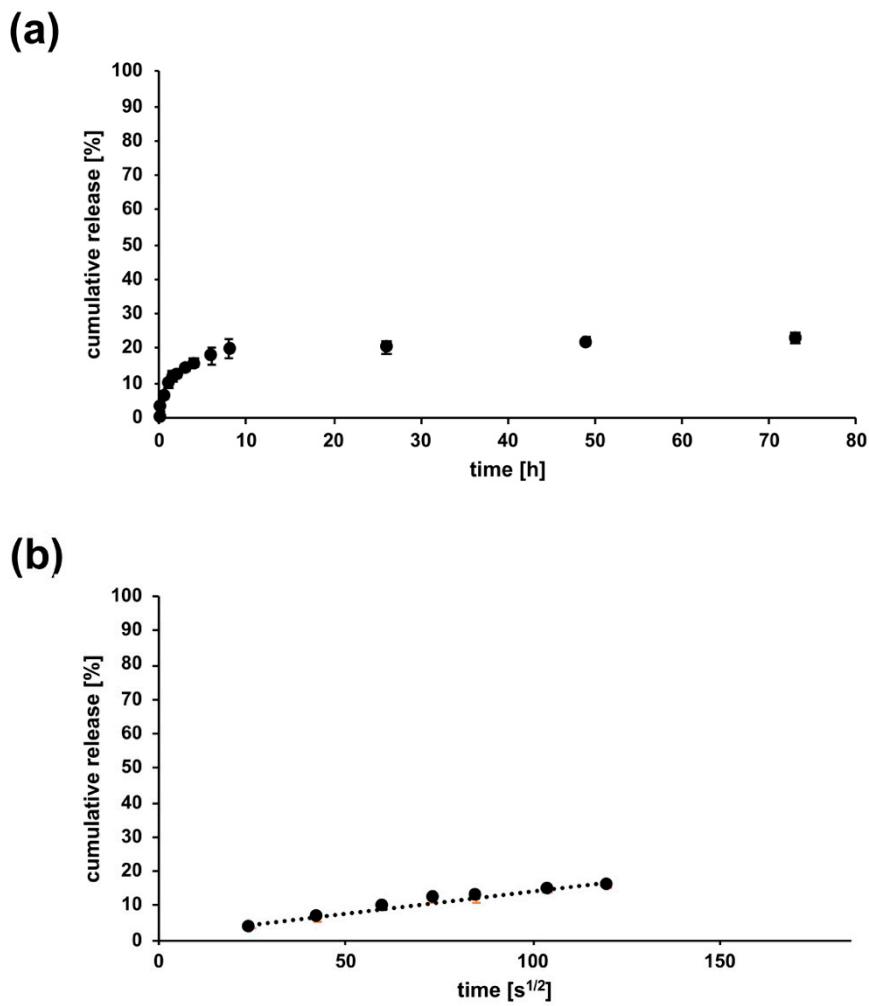


Figure S9. (a) Rhodamine release profile. (b) The slope of drug release against the square root of time is representative of Fickian diffusion coefficients for each sample ($p < 0.001$ between all groups): 20 mg/mL (black circle).

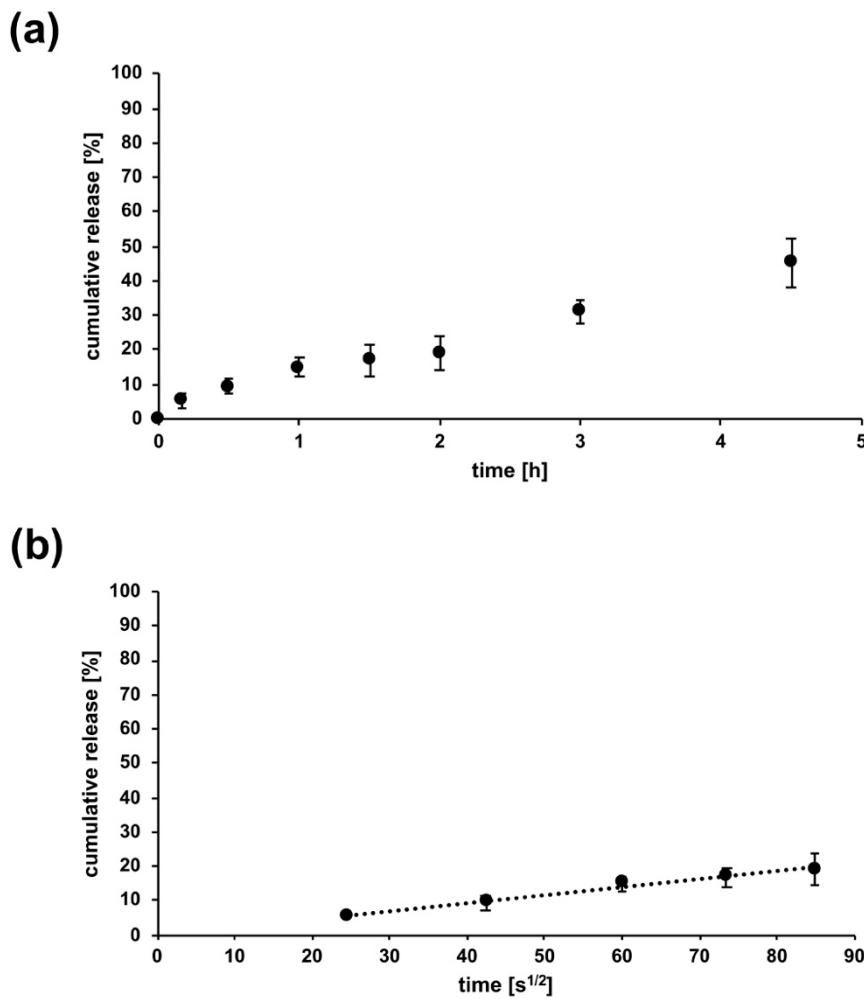


Figure S10. (a) FITC release profile. (b) The slope of drug release against the square root of time is representative of Fickian diffusion coefficients for each sample ($p < 0.001$ between all groups): 20 mg/mL (black circle).