Supporting Information

Graphene oxide/alginate composites as novel bioinks for three-dimensional mesenchymal stem cell printing and bone regeneration applications

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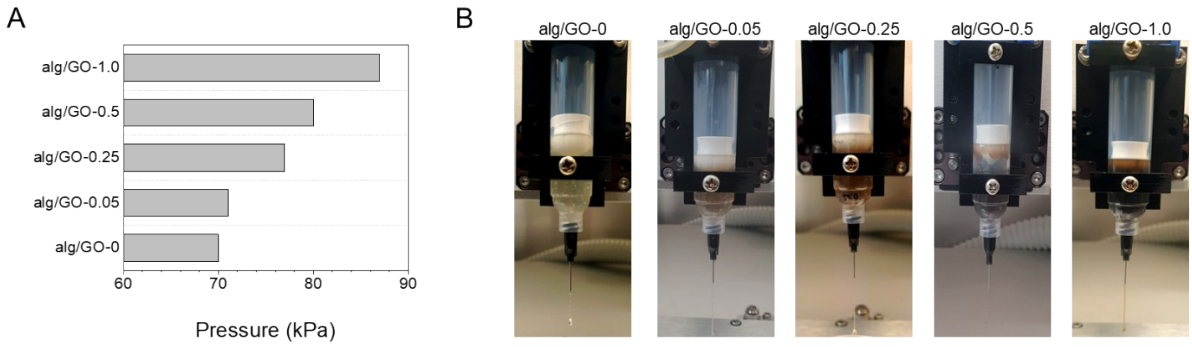

Figure S1 (A) Applied pressures for sub-optimal printing with each bioink. (B) Photographs during the printing with each bioink.

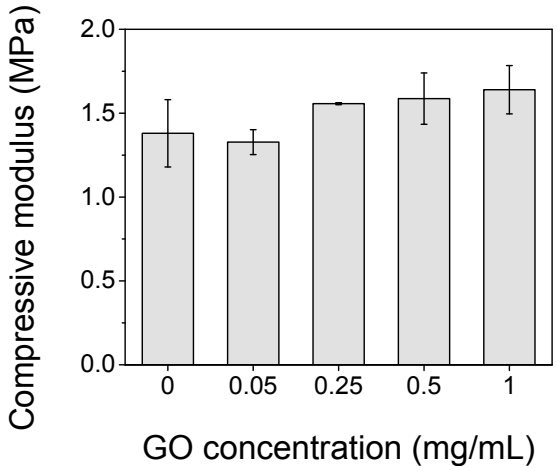

Figure S2 Compressive moduli of the scaffolds printed with various bioinks.

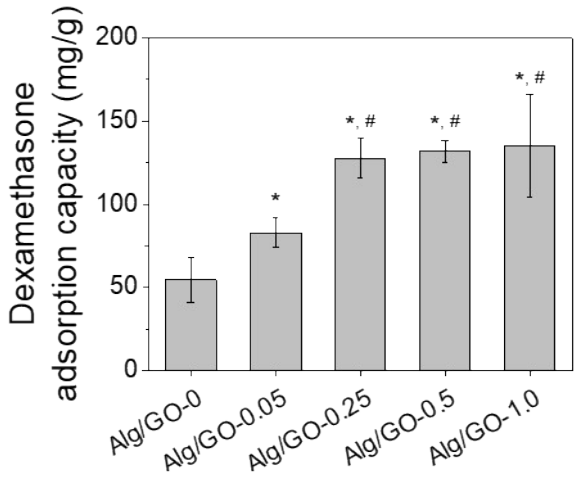

Figure S3 Dexamethasone adsorption to various Alg/GO scaffolds. * and # indicate statistical differences compared to alg/GO-0 and alg/GO-0.05, respectively, for 24 h. Individual scaffolds were cut into 5 mm x 5 mm pieces and weighed. Then, the samples were transferred into 0.5 mg/mL dexamethasone solution (in PBS) and at 37°C for 24 h. Then, the absorbance of the solution at 240 nm was measured to analyzed the dexamethasone concentration in the solution and calculate the absorption capacity of each sample.