

## Supporting information

### **Innovative Wound Management: Creating dynamic Alg-Mg/SF Hydrogels for Controlled Mg<sup>2+</sup> Release in Wound Healing**

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	Alg-BP (%)	SF (SF-GSH: SF-MA=1:1) (%)	MgCl <sub>2</sub> (mM)	CaSO <sub>4</sub> (mM)
Alg	2	-	-	7.5
Alg-Mg	2	-	200	7.5
Alg/SF	2	10	-	7.5
Alg-Mg/SF	2	10	200	7.5

Table S1. Fabrication of the adaptable hydrogels.

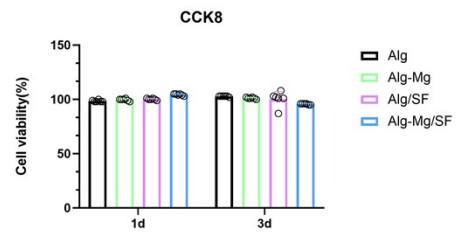


Figure S1. Survival rate of hydrogel L929 cells in each group (n=6).

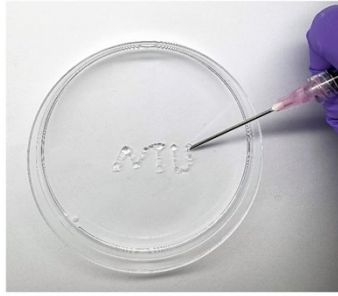
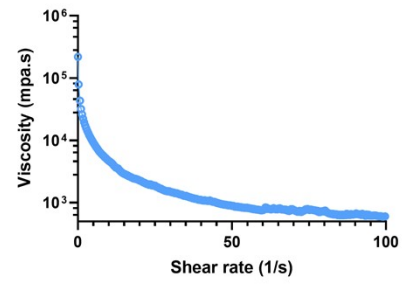
**A****B**

Figure S2. (A) Injectability of Alg-Mg/SF hydrogels. (B) Viscosities of the Alg-Mg hydrogel with the shear rate ranged from 0.1 to 100 1/s.