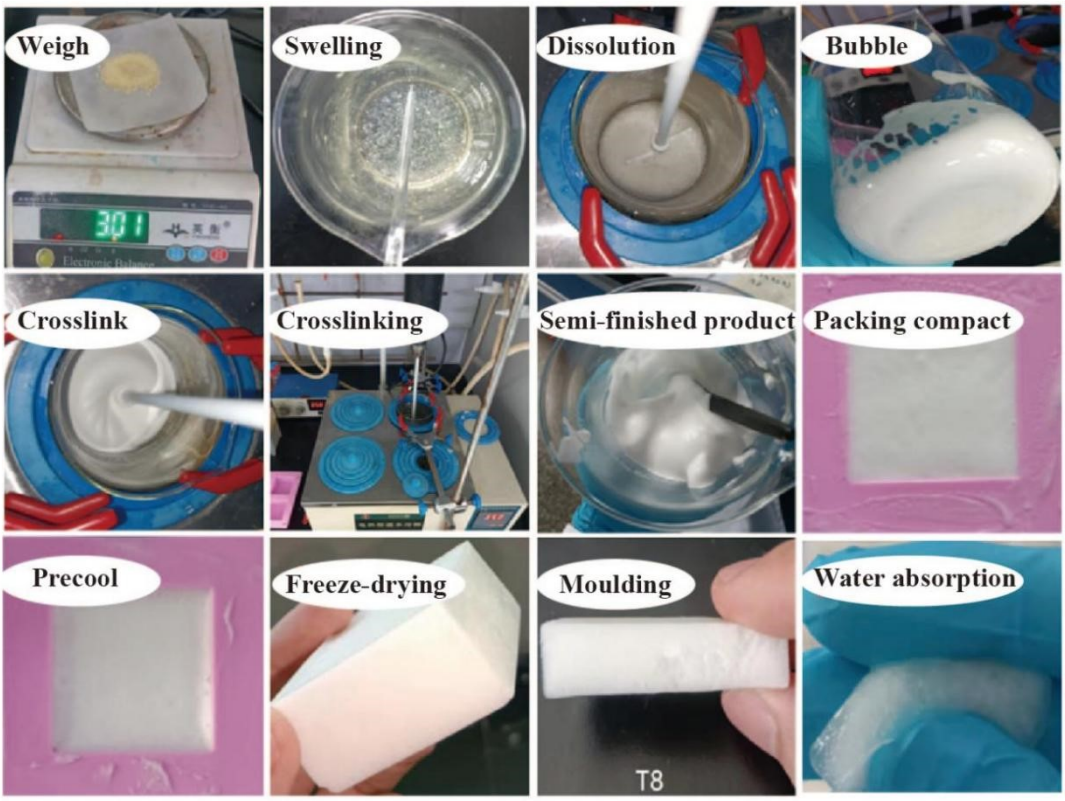
Supplementary Information (SI) for Journal of Materials Chemistry B.

Supporting Information

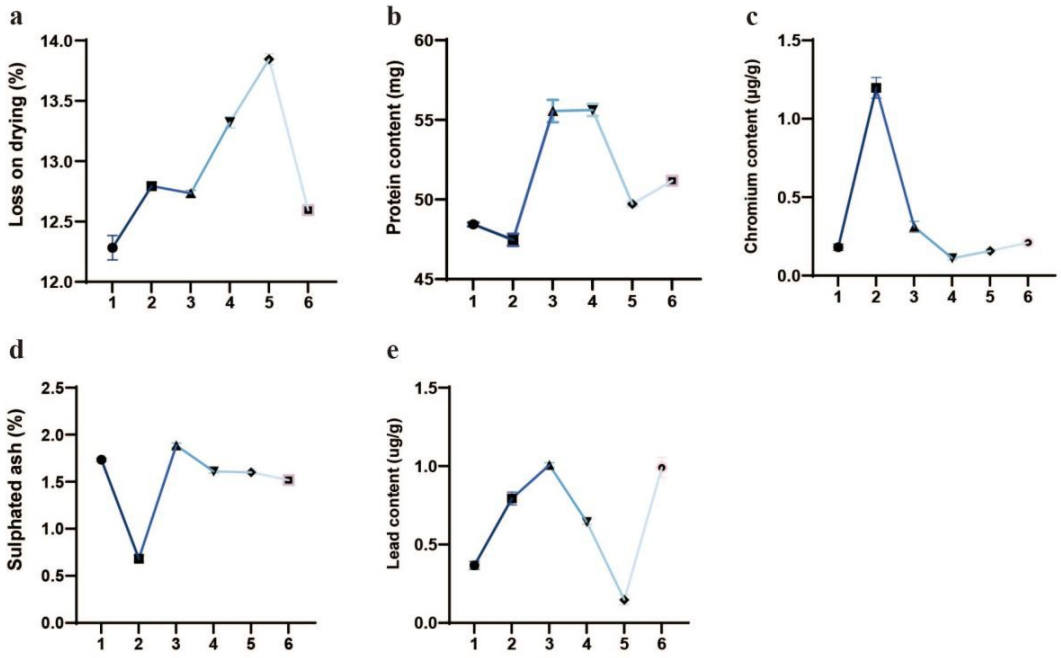
Supplementary materials



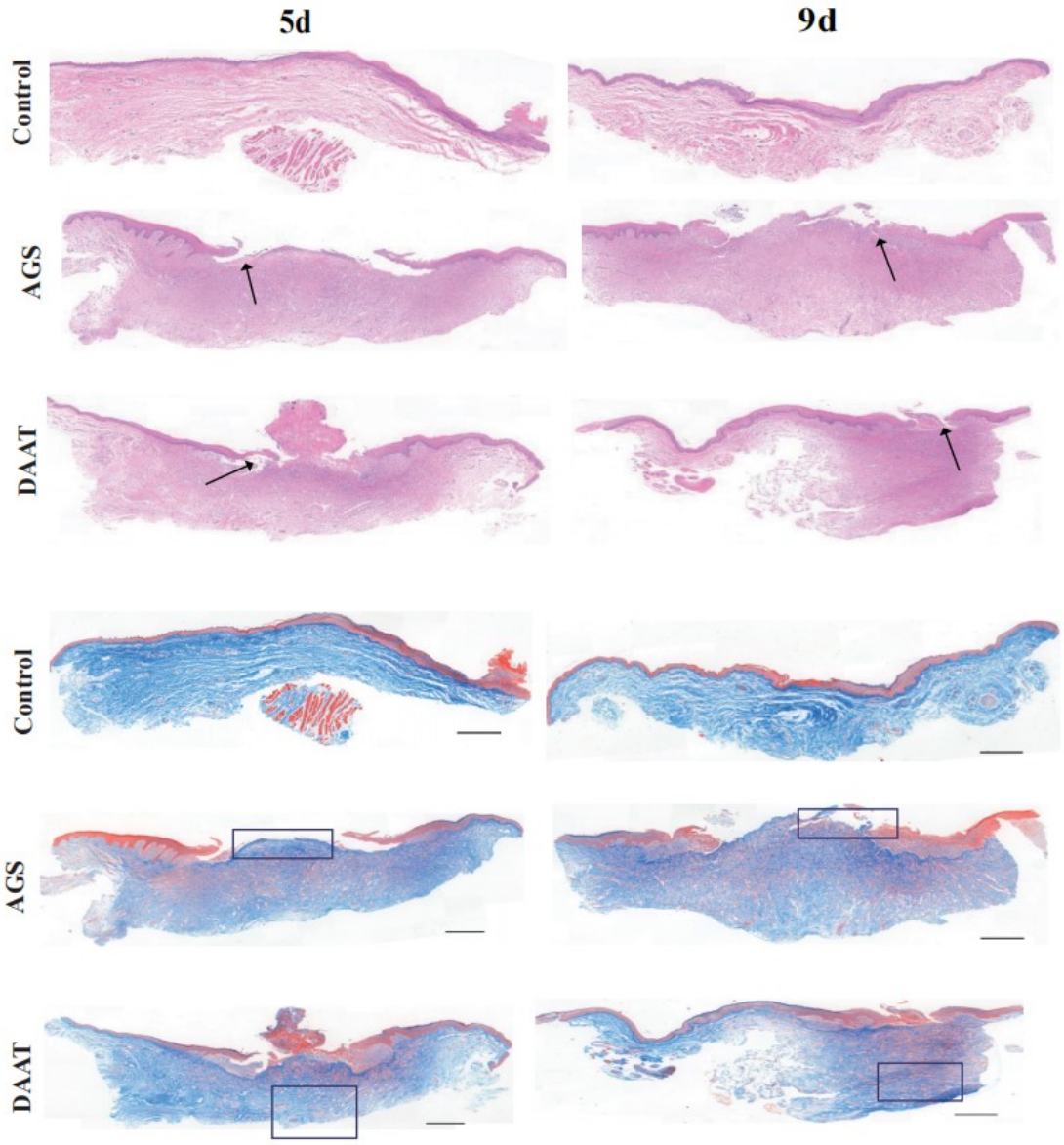
Supplementary Figure 1. The process of preparing gelatin.

Supplementary Table.1 Summary table of AGS formulationscreening results and selected optimal scaffold properties.

Factors Level	A Concentration of gelatin sponge(%)	B Formaldehyde concentration(%)	C Crosslinking temperature(℃)	Multiple of water absorption
1	3.5	1	30	25
2	3.5	2	35	30
3	3.5	4	40	57
4	3.5	6	45	41
5	5	1	35	51
6	5	2	30	45
7	5	4	45	53
8	5	6	40	28
9	6.5	1	40	47
10	6.5	2	45	44
11	6.5	4	30	29
12	6.5	6	35	55
13	8	1	45	71
14	8	2	40	65
15	8	4	35	46
16	8	6	30	31
T1	153	194	130	T=718
T2	177	184	182	
T3	175	185	197	
T4	213	155	209	
t1	38.25	48.50	32.50	
t2	44.25	46.00	45.50	
t3	43.75	46.25	49.25	
t4	53.25	38.75	52.25	
R	15.00	9.75	19.75	



Supplementary Figure 2. Preparation and characterization of PMVs-AGS. (a) The drying weight loss rate of absorbable gelatin sponge samples 1-6; (b) Determination of protein content in absorbable gelatin sponge samples 1-6; (c) Determination of chromium content in bsorbable gelatin sponge samples 1-6; (d) Determination of gray content in absorbable gelatin sponge samples 1-6; (e) Determination of lead content in absorbable gelatin sponge samples 1-6.



Supplementary Figure 3. HE and Masson staining revealed enhanced epithelialization and collagen deposition in the control, AGS, and DAAT groups.