

RESEARCH ARTICLE

A novel photocurable pullulan-based bioink for digital light processing 3D printing

Supplementary File

Table S1. The Pul-NB hydrogels with different degree of substitution (DS), solid contents, and crosslinkers

Sample name	Pul-NB content (w/v%)	DS of Pul-NB (%)	Crosslinker
Pul-NB 1	8	15.99	DTT
Pul-NB 2	8	22.75	DTT
Pul-NB 3	8	25.26	DTT
Pul-NB 4	8	29.93	DTT
Pul-NB 5%	5	29.93	DTT
Pul-NB 6%	6	29.93	DTT
Pul-NB 7%	7	29.93	DTT
Pul-NB 8%	8	29.93	DTT
Pul-NB 10%	10	29.93	DTT
Pul-NB DTT	8	29.93	DTT
Pul-NB HDT	8	29.93	HDT

Table S2. The degree of substitution of Pul-NB calculated according to the H1 NMR spectra

Sample	Pul-NB 1	Pul-NB 2	Pul-NB 3	Pul-NB 4
Integrate (a)	0.3198	0.4550	0.5055	0.5985
Integrate (d)	1.0000	1.0000	1.0000	1.0000
DS (%)	15.99	22.75	25.26	29.93

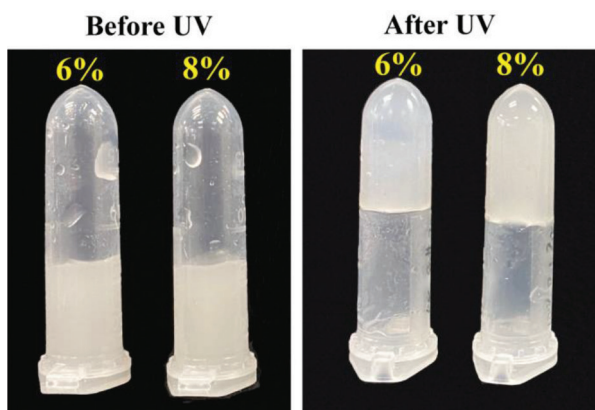


Figure S1. Pul-NB-based solutions cross-linked by 1,6-hexanediol (HDT) before and after UV irradiation.

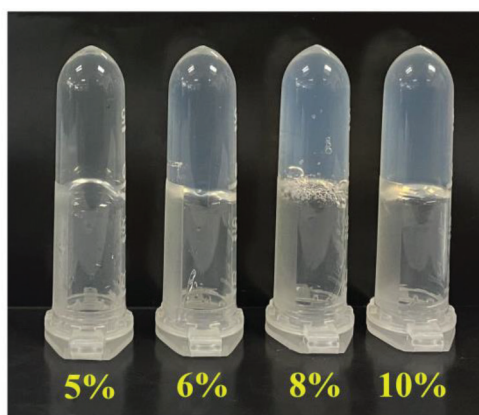


Figure S2. Pul-MA-based solutions after UV irradiation.