

Supplementary Materials: Effective Dispensing Methods for Loading Drugs Only to the Tip of DNA Microneedles

Moonjeong Bok, Zhi-Jun Zhao, Soon Hyoung Hwang, Hyeok-Joong Kang, Sohee Jeon, Jiwoo Ko, Jiwon Jeong, Young Seok Song, Eunju Lim and Jun-Ho Jeong

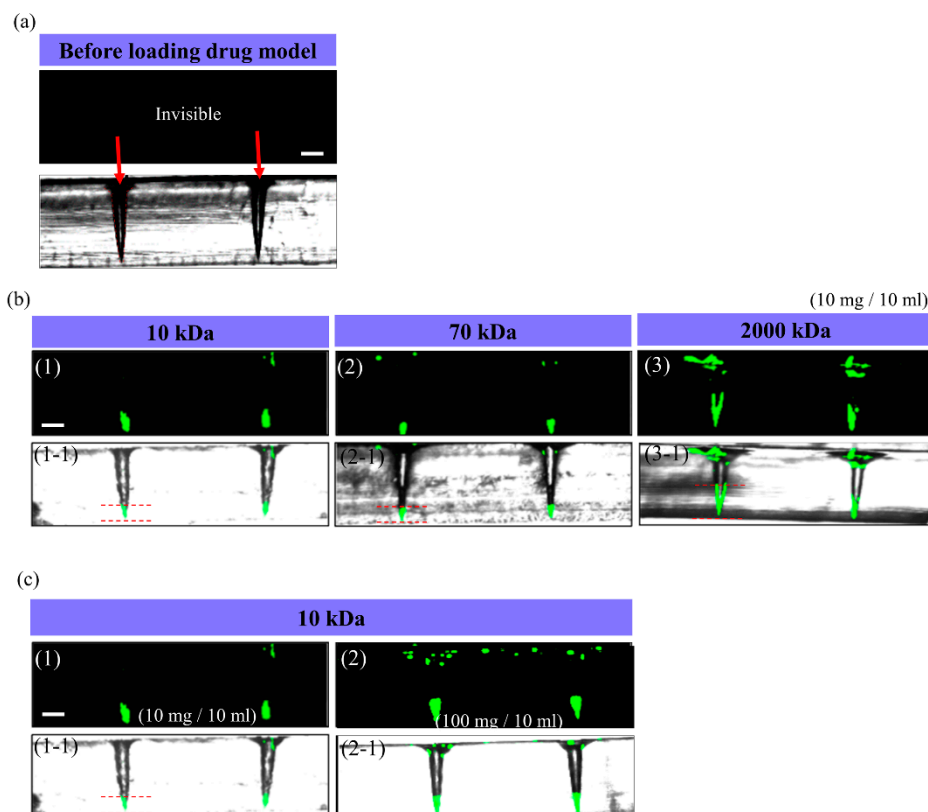


Figure S1. Confocal fluorescence and merged images of mold cross sections before and after drug loading. (a) Before loading; (b-1) 10 kDa, (b-2) 70 kDa, and (b-3) 2000 kDa with 10 mg/10 mL; (c-1) 10 mg/10 mL, and (c-2) 100 mg/10 mL with 10 kDa (scale bar: 200 μ m).

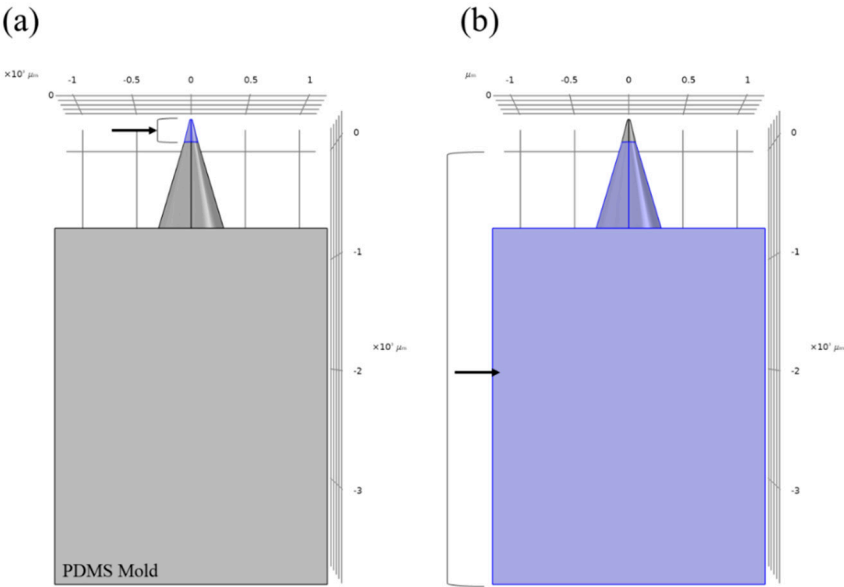


Figure S2. Geometric structure of domains. (a) Domain 1; (b) Domain 2.

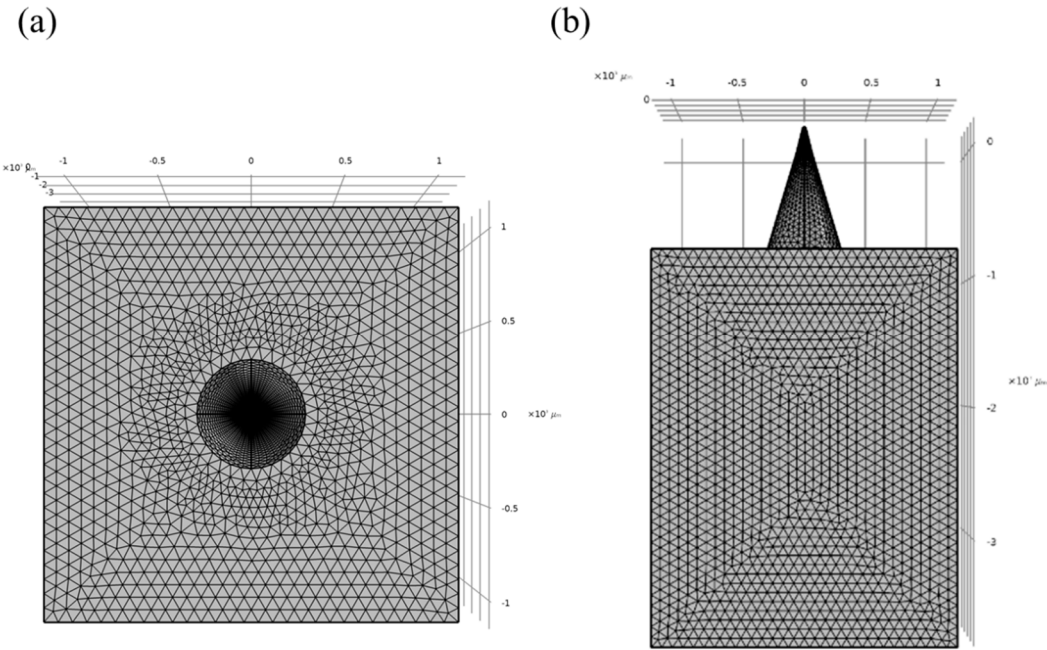


Figure S3. Mesh images. (a) Top view; (b) cross section.

Table S1. Material parameters employed for domains 1 and 2 in diffusion simulation.

	Domain 1	Domain 2
Concentration (c, mol/m ³)	1326	0
Molar volume of solute (v, cm ³ /mol)	7.54 × 10 ²	
Molecular weight (M, g/mol)	10 ⁴	8 × 10 ⁵
Temperature (T, K)	300	300