

## **Supporting Information**

### **An integrated microfluidic chip for alginate microspheres generation and 3D cell culture**

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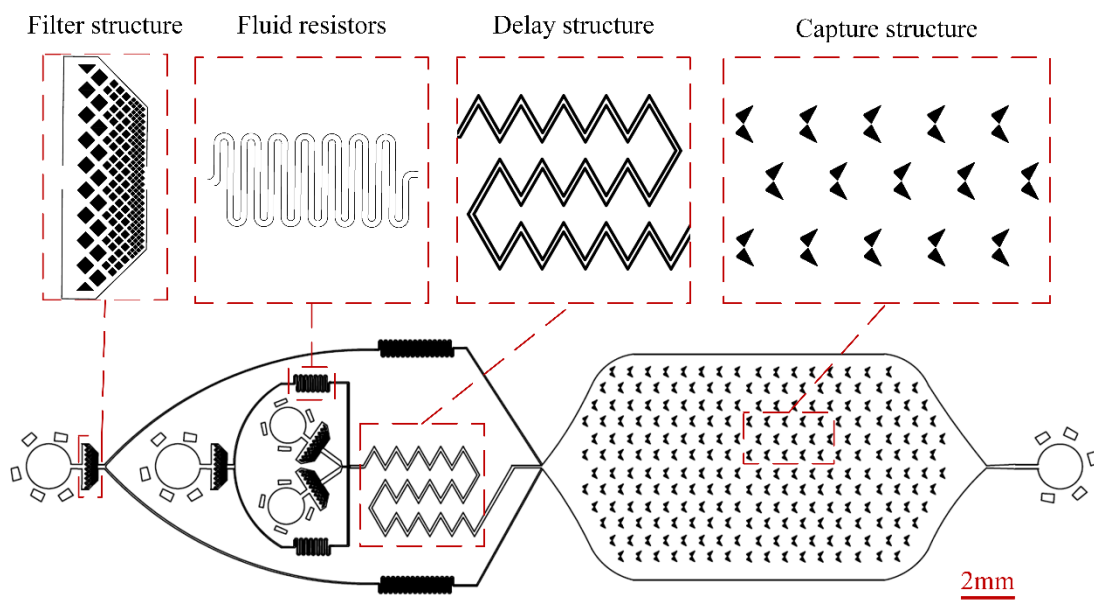


Fig S1. Design of microfluidic system.

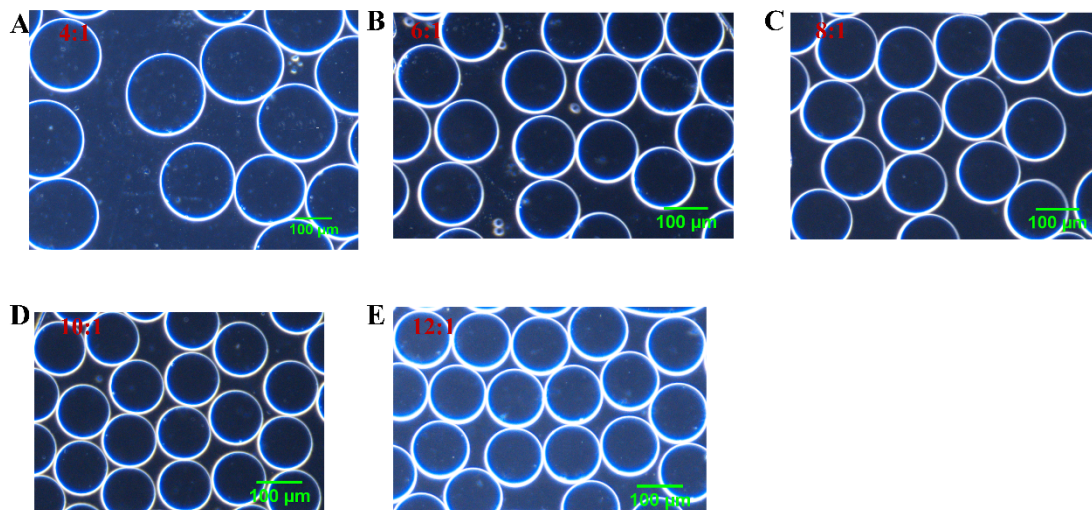
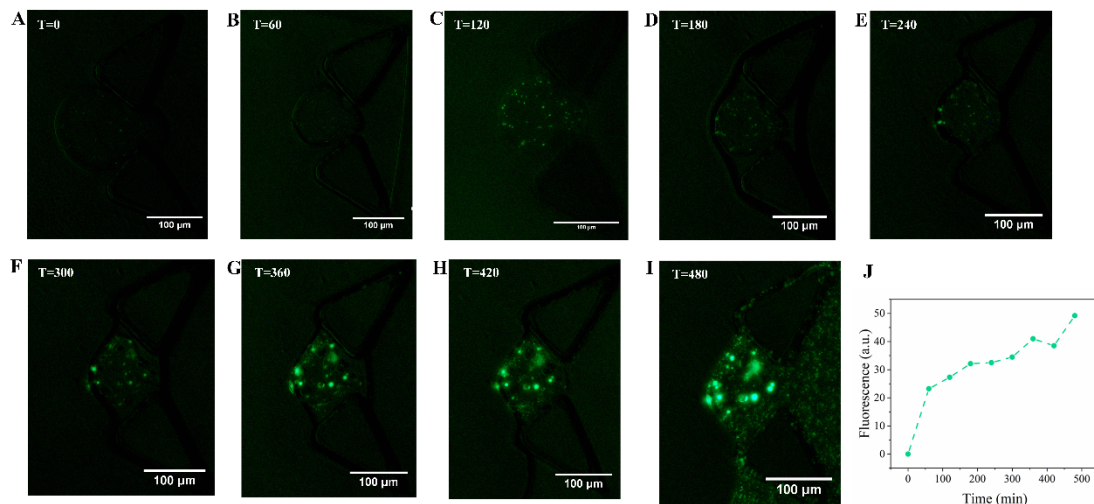


Fig S2. Images of alginate droplets at (A) Foil/Falg = 4, (B) Foil/Falg = 6, (C) Foil/Falg = 8, (D)

Foil/Falg = 10 and (E) Foil/Falg = 12. Falg = 30  $\mu\text{L h}^{-1}$ . Scale bar is 100  $\mu\text{m}$ .



**Fig S3. Complete time-lapse image series of the individual alginate microsphere shown in Figure 4 of the main manuscript. *E. coli* were encapsulated and incubated for 8 h. Scale bar = 100 μm.**