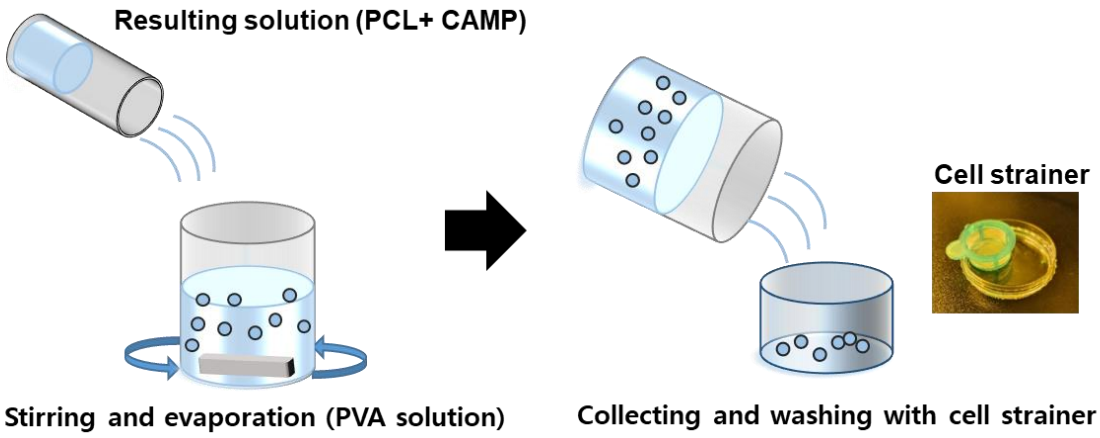



**Figure S1.** Schematic of the solvent evaporation method for the preparation of porous PCL microspheres.

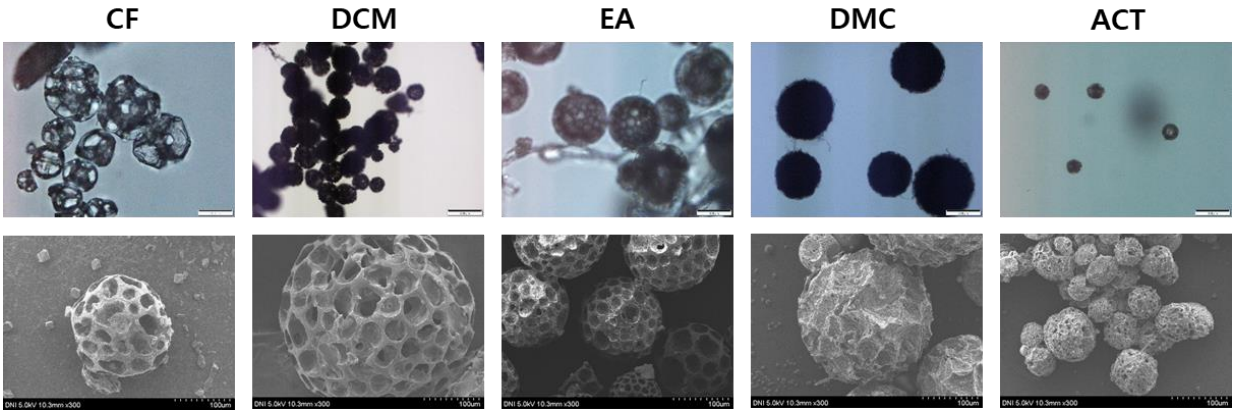



**Figure S2.** (a) Optical and SEM images of porous microspheres by the emulsion method prepared under various solvent effects. 3 wt.% PCL: 20 wt.% CAMP = 6:4 and 2 wt.% PVA in DI water were used.

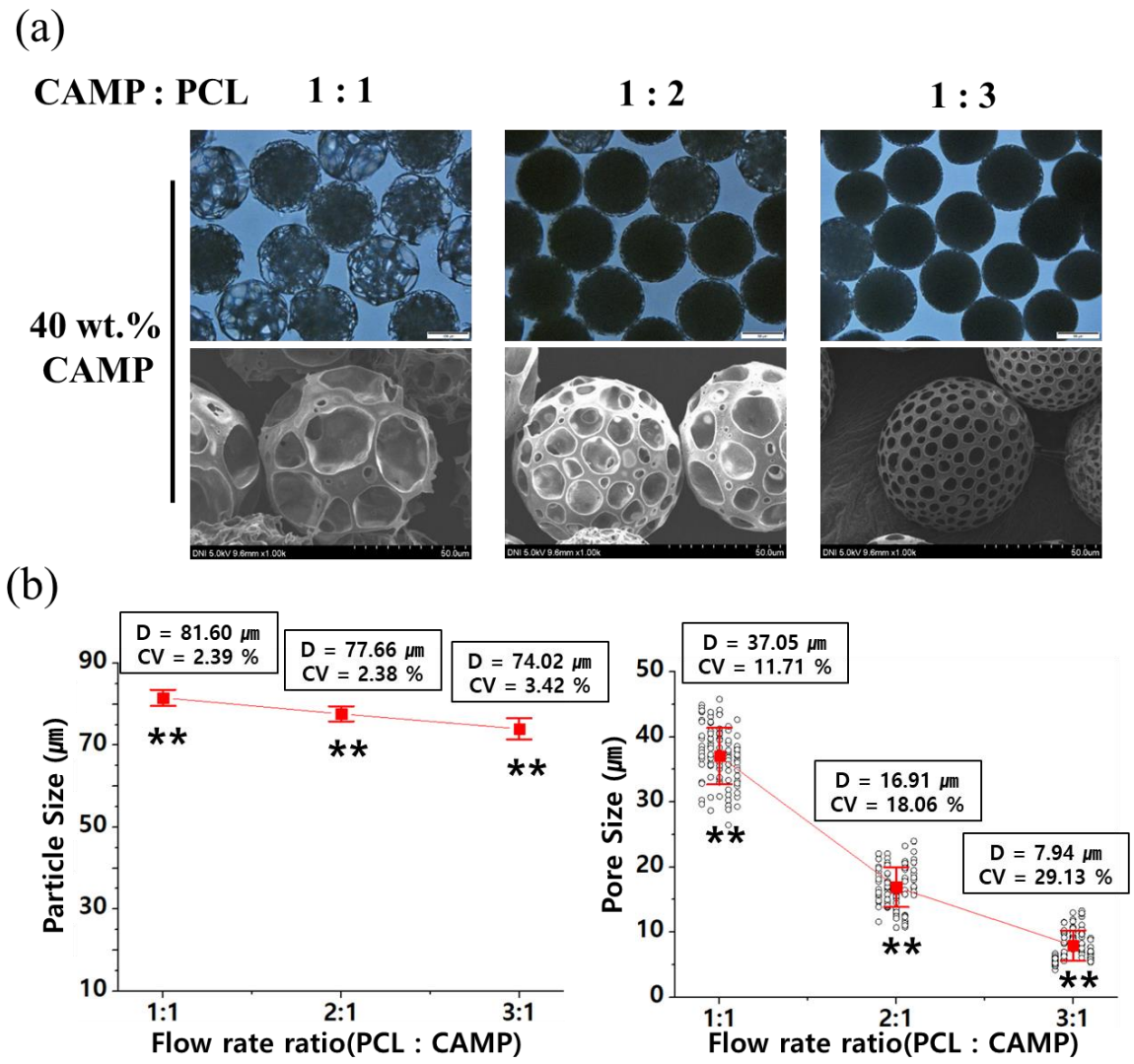



**Figure S3.** (a) Optical and SEM images of highly porous microspheres prepared by the microfluidic system according to the flow rate ratios using 5 wt.% PCL solution and 40 wt.% CAMP solution. (b) Diameter and pore size of porous microspheres with various flow ratios using 5 wt.% PCL solution and 40 wt.% CAMP solution as the dispersed phases (**$p < 0.0001$).

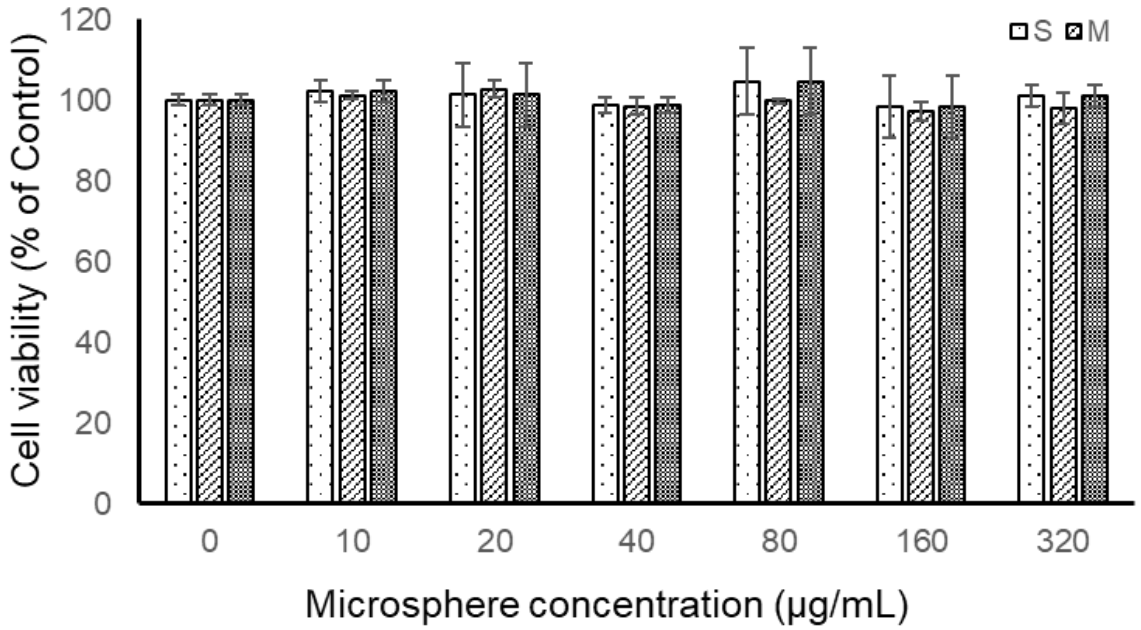



**Figure S4.** HDF cell viability after highly porous microsphere treatment. HFD cells treated with 3 different types of microspheres (S, M, and L) at various concentrations for 24 h, and the viability analyzed by the EX-Cytox cell viability assay (n = 3).