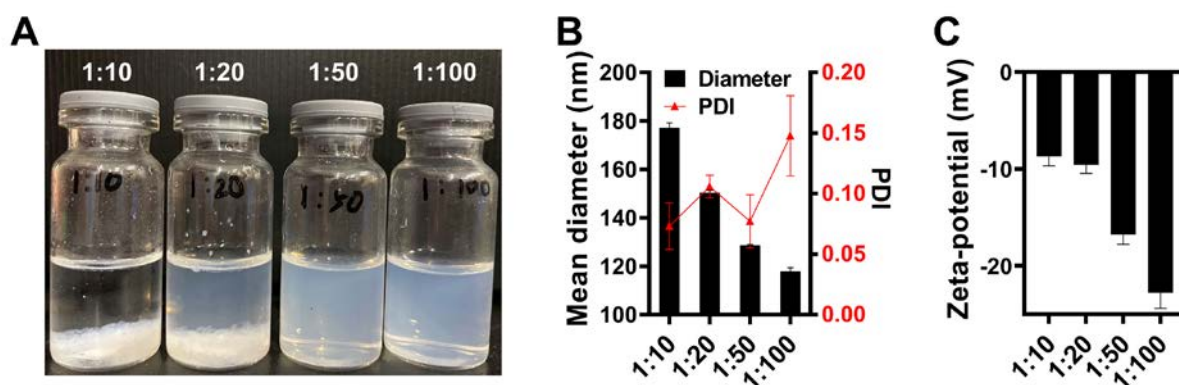


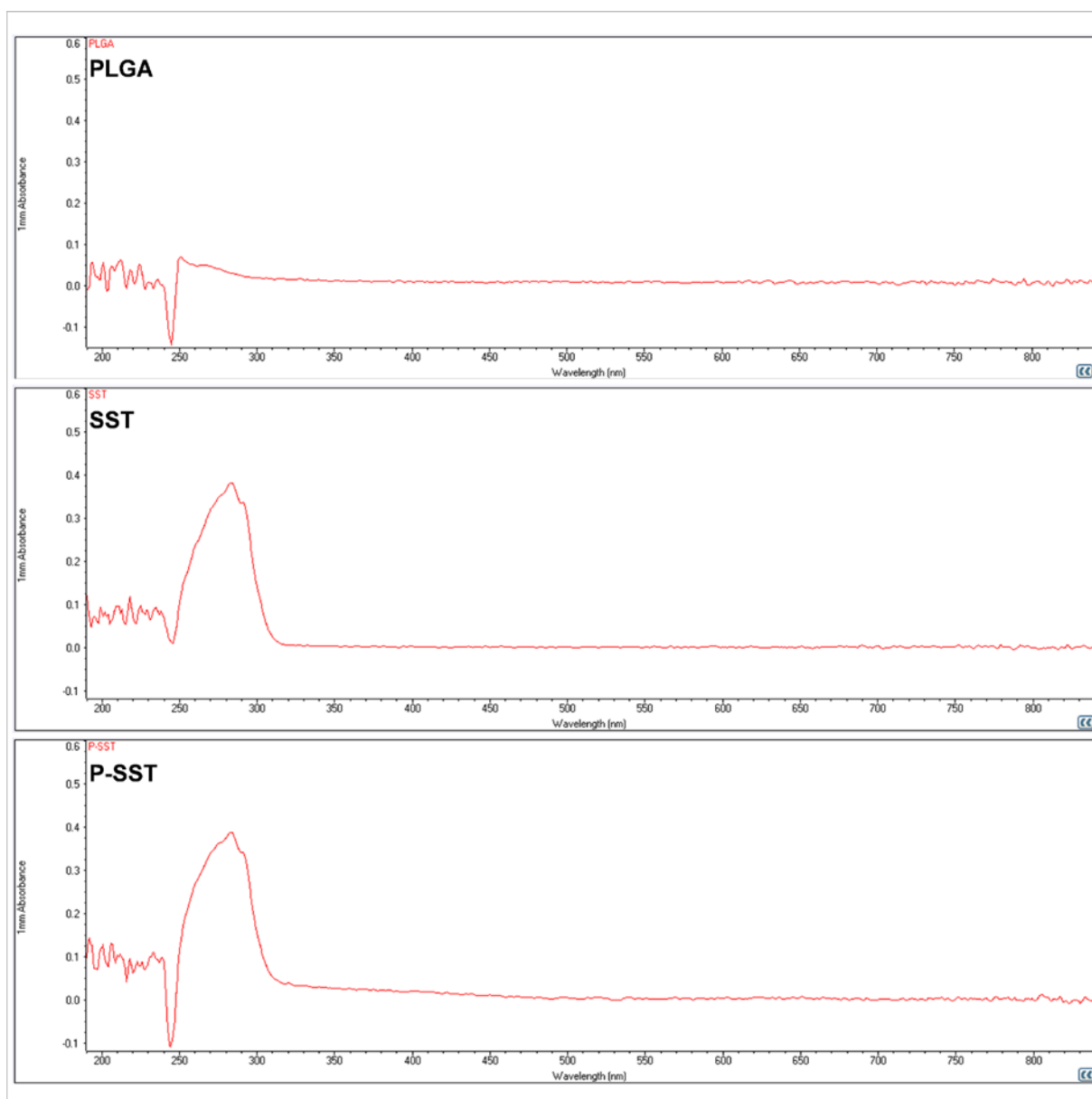
## Supplementary material

**Table S1.** Diameters of nanoparticles formed at different weight ratios of SST/PLGA.

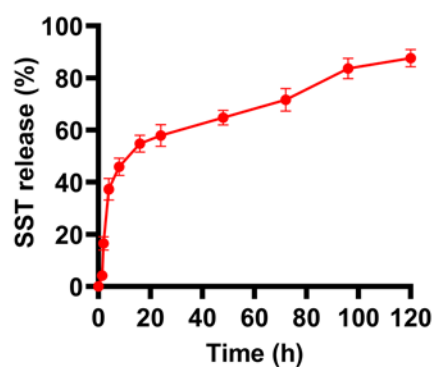
DMSO/Water (V/V)	SST/PLGA (W/W)	Aggregates	Diameter (nm)	PDI
1:10	1:10	+++	177.10±2.10	0.07±0.02
1:10	1:20	+	150.32±1.01	0.11±0.01
1:10	1:50	–	128.60±0.38	0.08±0.02
1:10	1:100	–	117.96±1.49	0.15±0.03



**Figure S1.** Fabrication of nanoparticles under different weight ratios of SST/PLGA. (A) The image of nanoparticle solutions fabricated under different weight ratios of SST/PLGA. Note the precipitation of nanoparticles at the bottom of vials under the conditions of 1:10 and 1:20 SST/PLGA weight ratios. (B) The diameters and (C) zeta-potentials of nanoparticles in the supernatant were increased by the increment of SST/PLGA weight ratios. (Mean ± SD, n=3).



**Figure S2.** UV-VIS spectrum of PLGA nanoparticles, SST peptide and P-SST dissolved in DMSO. The spectrum of P-SST and SST showed a peak at 284 nm which was lack in the empty PLGA nanoparticles, demonstrating the successful encapsulation of SST in the P-SST nanoparticles.



**Figure S3.** The release profile of SST from the MP-SST nanoparticles. (Mean  $\pm$  SD, n=3).