Supplementary information

For

Tremella polysaccharides-coated zein nanoparticles for enhancing stability and bioaccessibility of curcumin

Duoduo Li ^a , Zihao Wei ^{a,*} , Jialin Sun ^a , Changhu Xue ^{a,b}
College of Food Science and Engineering, Ocean University of China, Qingdao
266003, China
Qingdao National Laboratory for Marine Science and Technology, Qingdao 266235,
China
* To whom correspondence should be addressed.
Corresponding author at: College of Food Science and Engineering, Ocean University
of China, 5 Yushan Road, Qingdao, Shandong Province 266003, China.
Email: weizihao@ouc.edu.cn (Z. Wei)

To demonstrate the reliability of using a 426 nm to measure the curcumin concentration for this zein/TP system, we have monitored the visible spectrum of the sample at 400–600 nm using a UV-2355 spectrophotometer. The UV-visible spectra was shown in Fig. S1.

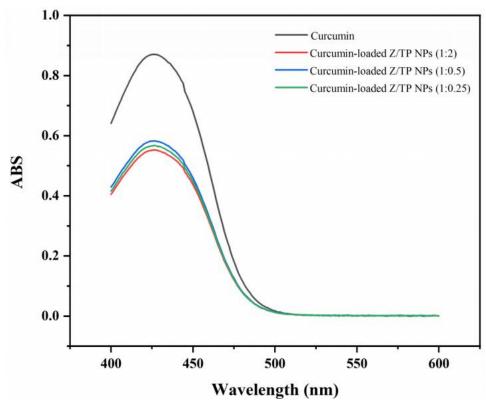


Fig. S1 UV-visible spectra of curcumin and curcumin-loaded zein/TP nanoparticles dispersions.

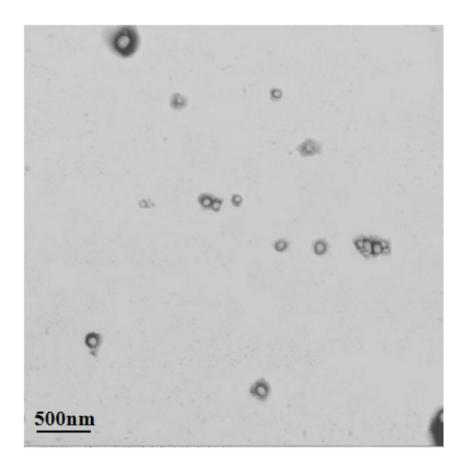


Fig. S2 TEM image of curcumin-loaded zein/TP NPs with a mass ratio of 1:0.5.

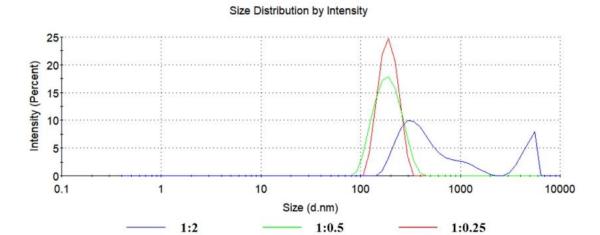


Fig. S3 Particle size distribution of re-dispersed curcumin-loaded zein/TP NPs with different mass ratios.

Table S1

The particle size and PdI of re-dispersed curcumin-loaded zein/TP NPs with different mass ratios.

Sample	Mass ratios of zein to TP	Particle size (nm)	PdI
Re-dispersed zein/TP NPs	1:2	473.5±75.2°	0.66 ± 0.09^{c}
	1:0.5	184.2±9.0°	0.21±0.01a
	1:0.25	299.5±47.3 ^b	0.51±0.08 ^b

Different letters in the same column indicate significantly different (p < 0.05).