

Supplementary information

Table S1. Secondary structure of samples prepared at different conditions

	Zein%	Dispersing flow rates	$\alpha$ -helix	$\beta$ -sheet	random coil
Raw zein			49.6% $\pm$ 6.23%	20.20% $\pm$ 9.73%	30.23% $\pm$ 5.54%
Sample 3	2%	0.3 ml/hr	5.87% $\pm$ 1.80%	45.87% $\pm$ 2.45%	48.20% $\pm$ 1.25%
Sample 5	4%	0.2 ml/hr	7.87% $\pm$ 1.90%	44.10% $\pm$ 3.48%	48.00% $\pm$ 2.50%
Sample 7	6%	0.1 ml/hr	6.17% $\pm$ 0.70%	49.00% $\pm$ 1.51%	44.83% $\pm$ 0.75%

Figure S2: The SEM image of an ultra-cut microcapsule sample

