

**One Step Self-Assembly of Curcumin-Loaded Zein/Sophorolipid
Nanoparticles: Physicochemical Stability, Redispersibility, Solubility
and Bioaccessibility**

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Table S1 Composition of simulated gastric fluid (SGF) and simulated intestinal fluids (SIF)

Reagents	SGF (pH = 3)	SIF (pH = 7)
KCl	5.52 mM	5.44 mM
KH ₂ PO ₄	0.72 mM	0.64 mM
NaHCO ₃	20.00 mM	68.00 mM
NaCl	37.76 mM	30.72 mM
MgCl ₂ (H ₂ O) ₆	0.08 mM	0.26 mM
(NH ₄) ₂ CO ₃	0.40 mM	none
HCl	22.48 mM	6.72 mM
NaOH	none	3.73 mM
CaCl ₂ (H ₂ O) ₂	0.07 mM	0.30 mM
lecithin	0.17 mM	none
pepsin	2000.00 U/mL	none
pancreatin	none	100.00 U/mL
bile extract	none	6.25 mg/mL

Table S2 Degradation kinetic parameters of Cur during storage

Temperature	Sample	K(day ⁻¹)	T _{1/2} (day)	R ²
25 °C	Curcumin	0.1711	4.05	0.9440
	Cur-Z/SNPs	0.0182	38.09	0.9860
4 °C	Curcumin	0.1115	6.22	0.9887
	Cur-Z/SNPs	0.0181	38.30	0.9741