

Electronic Supplementary Information

Table S1 Amino acid compositions of zein, α -zein fraction, β -zein fraction, and γ -zein fraction.

		zein	α-zein fraction	β-zein fraction	γ-zein fraction
Hydrophilic amino acids	aspartic acid (%)	0.4	0.2	0.5	1
	Threonine (%)	5.7	5	5	3.9
	Serine (%)	1.8	1.9	2.1	2.1
	Glutamate (%)	23.3	21.3	22.7	19.7
	Glycine (%)	9.0	3.2	9.4	6.5
	Cysteine (%)	4.3	4.4	4.6	8.3
	Methionine (%)	0.9	0.2	0.3	1
	Tyrosine (%)	7.9	5.8	2.9	5.5
	Lysine (%)	4.2	1.4	8.1	1.6
	Histidine (%)	0.2	0.9	4.7	0.8
	Arginine (%)	1.3	1.4	1.5	2.5
	Summary (%)	59.2	45.7	61.8	52.9
Hydrophobic amino acids	Alanine (%)	0.3	9.2	8.7	1.1
	Valine (%)	0.6	0.3	0.5	1.2
	Isoleucine (%)	1.1	4.2	1.5	1.2
	Leucine (%)	15.2	17	17.8	7.8
	Phenylalanine (%)	8.9	8.5	8.4	6.7
	Proline (%)	14.8	15.1	1.3	29.1
	Summary (%)	40.8	54.3	38.2	47.1

Figure captions

Figure S1 Fourier Transform Infrared (FTIR) spectroscopy of the zein, α -zein fraction, β -zein fraction, and γ -zein fraction.

Figure S2 Differential Scanning Calorimetry (DSC) spectroscopy of the zein, α -zein fraction, β -zein fraction, and γ -zein fraction.

Figure S1

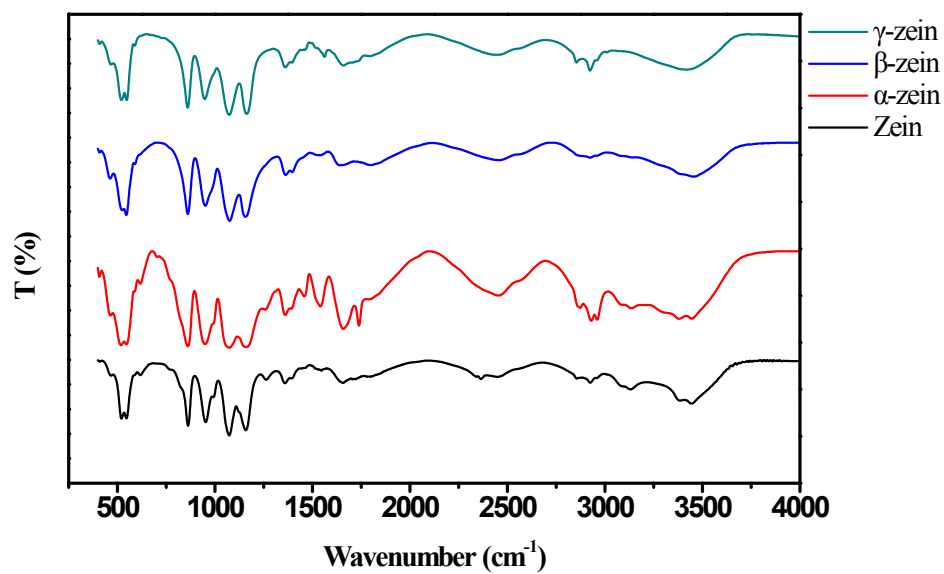


Figure S2

