

Table S1 Simulated Digestive Solution Preparation (1.25 ×)

Solution	Concentration (g/L)	Additive amount (mL)		
		SSF (pH 7)	SGF (pH 3)	SIF (pH 7)
KCl	37.3	15.1	6.9	6.8
KH ₂ PO ₄	68	3.7	0.9	0.8
NaHCO ₃	84	6.8	12.5	42.5
NaCl	117	-	11.8	9.6
MgCl ₂ (H ₂ O) ₆	30.5	0.5	0.4	1.1
(NH ₄) ₂ CO ₃	48	0.06	0.5	-
HCl (pH adjust)	-	-	-	-
The following add before use				
CaCl ₂ (H ₂ O) ₂	44.1	0.025	0.005	0.04

Table S2 Protein and reducing polysaccharides contents

	Protein (g/100g DM)	Reducing polysaccharides (g/100g DM)
AA	48.56 ± 0.70 ^a	8.89 ± 0.88 ^b
UAA	46.76 ± 0.34 ^b	15.44 ± 1.10 ^a
S	17.51 ± 0.07 ^d	4.14 ± 0.54 ^c
CAA	26.76 ± 0.37 ^c	10.65 ± 0.19 ^b