

### Supplementary data

Table S1 Composition and nutrient levels of the basal diet (as-fed basis)

Items	Control	Fiber sources	
		Sweet potato fiber	Sweet potato residue
Ingredients (%)			
Cornstarch	44.74	31.92	31.74
Casein	20	20	20
Dextrinized cornstarch	13.2	13.2	13.2
Sucrose	10	10	10
Soybean oil	7	4.82	5
Sweet potato fiber	0	15	0
Sweet potato residue	0	0	15
L-Cystine	0.3	0.3	0.3
Mineral mix	1	1	1
Vitamine mix	3.5	3.5	3.5
Choline Chloride	0.246	0.246	0.246
Antioxidants	0.014	0.014	0.014
Total	100	100	100
Analysed chemical composition			
Gross energy (Kcal/kg)	3766	3766	3766
Crude protein (%)	15.2	15.2	15.2
Soluable fiber (%)	3.7	15	5.5
Insoluable fiber (%)	2.7	0.3	2.3
Total fiber (%)	6.4	15.3	7.8

Table S2 Effects of sweet potato fiber and sweet potato residue supplementation on body weight gain and food intake of rats

Treatment	Control	Sweet potato fiber	Sweet potato residue
mean daily gain (g)	2.19±0.20 <sup>a</sup>	2.35±0.11 <sup>a</sup>	2.96±0.13 <sup>b</sup>
mean daily food intake (g)	14.06±0.48 <sup>a</sup>	13.48±0.38 <sup>a</sup>	15.43±0.39 <sup>b</sup>
food intake/body weight gain ratio	6.30±0.68	5.85±0.32	5.30±0.28

Data represent the means ± SEM. Different superscripts indicate significant difference ( $P < 0.05$ ).

Table S3 Data for plasma chemistry of rats administered with control, sweet potato fiber and sweet potato residue

Parameters*	Control	Sweet potato fiber	Sweet potato residue
ALB (g/L)	33.39±0.36	34.55±0.80	33.90±0.49
TP (g/L)	75.24±0.70	70.76±1.23	72.42±1.23
ALB/TP	0.46±0.01 <sup>a</sup>	0.49±0.01 <sup>b</sup>	0.47±0.01 <sup>ab</sup>
ALT	62.40±4.10	64.00±5.56	71.73±4.14
AST	269.90±13.11	255.00±21.29	281.55±13.20
AST/ALT	4.38±0.12	4.24±0.21	3.96±0.11
BUN	4.64±0.34 <sup>a</sup>	3.53±0.21 <sup>b</sup>	4.10±0.27 <sup>ab</sup>
CRE	77.89±0.96 <sup>a</sup>	69.40±1.29 <sup>b</sup>	81.09±2.27 <sup>a</sup>
BUN/CRE	0.06±0.00	0.05±0.00	0.06±0.00
total cholesterol (mmol/L)	2.11±0.15	2.22±0.11	2.35±0.09
glucose (mmol/L)	3.86±0.45 <sup>ab</sup>	4.92±0.50 <sup>b</sup>	3.22±0.37 <sup>a</sup>
triglycerides (mmol/L)	1.14±0.10 <sup>a</sup>	0.85±0.08 <sup>b</sup>	0.83±0.04 <sup>b</sup>

\* ALB, albumin; TP, total protein; ALT, alanine transaminase; AST, aspartate transaminase; BUN, blood urea nitrogen; CRE, creatinine. Data represent the means ± SEM. Different superscripts indicate significant difference ( $P < 0.05$ ).