

Table s-1 Composition of experimental diets (Study 1)

Ingredients (g/kg diet)	Dietary group			
	LF	HF	TP	STP
Casein	200	200	200	200
L-Cystine	3	3	3	3
Sucrose	100	100	100	100
Lard	20	230	230	230
Soybean oil	40	40	40	40
<i>t</i> -Butylhydroquinone	0.014	0.054	0.054	0.054
Cellulose	50	50	50	50
Mineral Mix (AIN-93G)	35	35	35	35
Vitamin Mix (AIN-93G)	10	10	10	10
Choline bitartrate	2.5	2.5	2.5	2.5
α -Cornstarch	100	100	–	–
Turmeric powder	–	–	100	–
Spent turmeric powder*	–	–	–	100
Cornstarch	439	229	229	229
Energy density (kcal/kg)	3950	5000	4849	4849

*Curcumin-extracted turmeric residue.

Table s-2 Composition of experimental diets (Study 2)

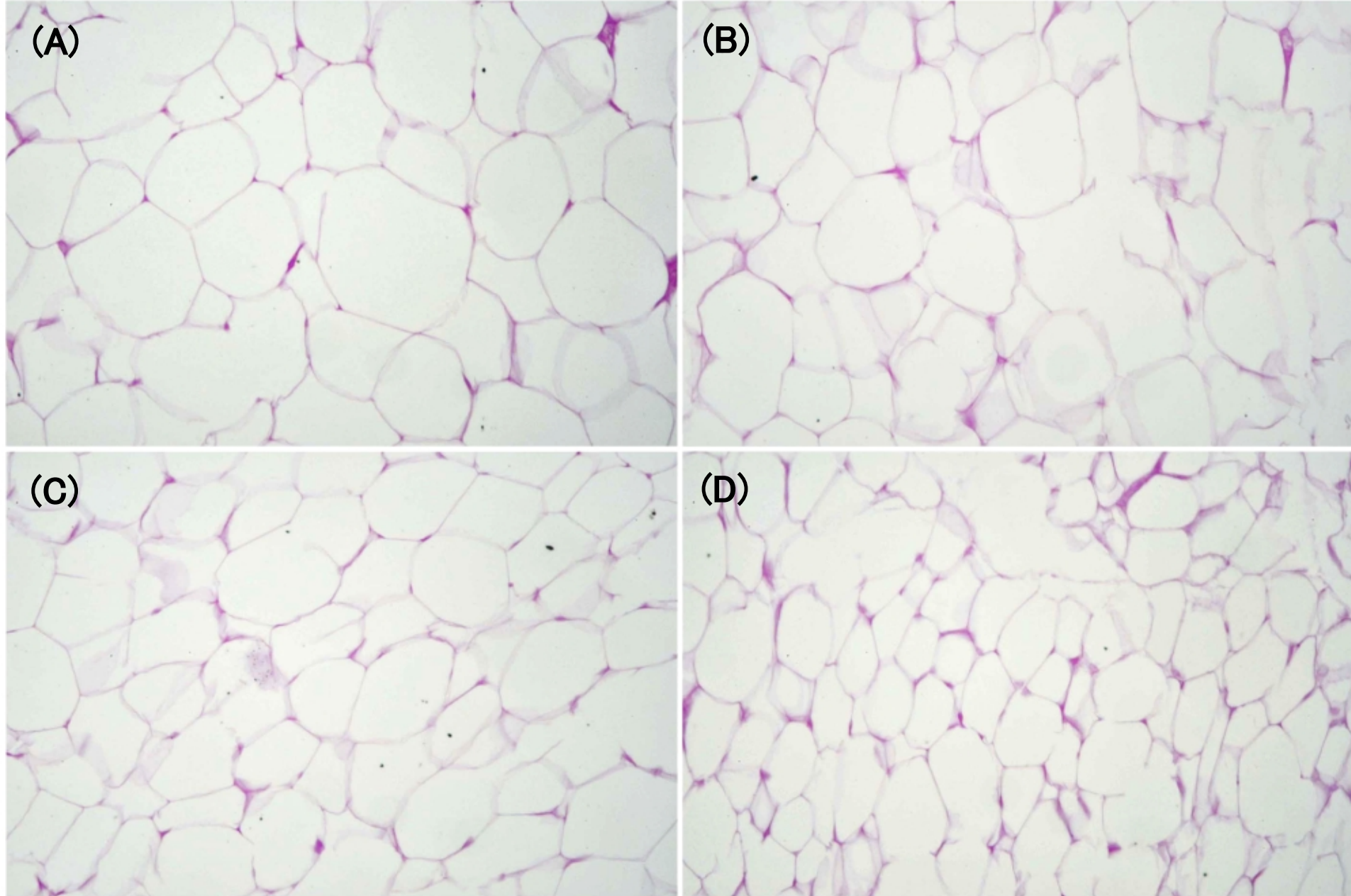
Ingredients (g/kg diet)	Dietary group	
	CON	STP
Casein	200	189.2
L-Cystine	3	3
Sucrose	100	100
Lard	230	229
Soybean oil	40	40
<i>t</i> -Butylhydroquinone	0.054	0.054
Cellulose	50	29.7
Mineral Mix (AIN-93G)	35	35
Vitamin Mix (AIN-93G)	10	10
Choline bitartrate	2.5	2.5
Spent turmeric	–	100
Cornstarch	329.446	261.546
Calorie (kcal/kg)*	5000	4926*

*An energy value was attributed to resistant starch.⁷

Table s-3. Proximate composition of spent turmeric

(g/100 g)	Spent turmeric ¹
Yield (%)	90.1 ²
Water	10.7
Protein	10.8
Lipid	1.0
Ash	7.7
Carbohydrate	69.8
Total fiber	20.3
Soluble fiber	1.9
Insoluble fiber	18.4
Starch	49.2
Resistant starch	35.2
Non-resistant starch	14.0

¹ Yellow pigment-excluded turmeric powder. ²It was calculated as the weight of sample verse the weight of turmeric powder (x100).



The mesentery adipocyte' size in rats fed a STP diet was smaller than that in rats fed a control diet with or without antibiotic cocktail. CON (A), STP (B), CON + antibiotic (C), and STP + antibiotic (D).