

Table S1. Composition of the diets (g/kg)

Ingredient	I	II	III	IV	V	VI	VII	VIII
Corn starch	448	298	296	297.6	296.8	296.6	295.8	295.6
Sucrose	50	50	50	50	50	50	50	50
Dextrin	127	127	127	127	127	127	127	127
DL-methionine	3	3	3	3	3	3	3	3
Casein	210	210	210	210	210	210	210	210
Vitamin mix. ¹	10	10	10	10	10	10	10	10
Cellulose	50	50	50	50	50	50	50	50
Mineral mix. ²	30	30	30	30	30	30	30	30
Choline bitartrate	2	2	2	2	2	2	2	2
Corn oil	70	70	70	70	70	70	70	70
Beef tallow	—	150	150	150	150	150	150	150
Chlorogenic acid	—	—	2	—	1	1	2	2
Caffeine	—	—	—	0.4	0.2	0.4	0.2	0.4
Energy (kcal/kg)	3982	4732	4724	4730.4	4727.2	4726.4	4723.2	4722.4

^{1,2}: Vitamin mixture and mineral mixture were prepared according to AIN-76TM.

Energy from sucrose, corn starch, dextrin and casein was 4 kcal/g. Energy from corn oil and beef tallow was 9 kcal/g. Energy from cellulose was 0 kcal/g.

I : control; II : high fat diet (HFD); III: HFD + 0.2% Chlorogenic acid (CGA); IV: HFD + 0.04% caffeine; V: HFD + 0.1% CGA + 0.02% caffeine; VI: HFD + 0.1% CGA + 0.04% caffeine; VII: HFD + 0.2% CGA + 0.02% caffeine; VIII: HFD + 0.2% CGA + 0.04% caffeine.