

Supplemental Table 1 Composition of diets fed to mice

Ingredient	MD10% Fat	MD45% Fat
<i>Casein</i>	18.96	23.31
<i>L-cystein</i>	0.28	0.35
<i>Corn starch</i>	29.86	8.48
<i>Maltodextrin</i>	3.32	11.65
<i>Sucrose</i>	33.17	20.14
<i>Cellulose</i>	4.74	5.83
<i>Soybean oil</i>	2.37	2.91
<i>Lard</i>	1.9	20.68
<i>Mineral Mix</i>	0.95	1.16
<i>Phosphate dicalcium</i>	1.23	1.51
<i>Carbonate calcium</i>	0.5	0.64
<i>Potassium citrate, 1 H₂O</i>	1.56	1.92
<i>Vitamin Mix</i>	0.95	1.16
<i>Choline bitartrate</i>	0.19	0.23
<i>Total</i>	99.98	99.97
<i>Energy Composition</i>	100	100
<i>Protein</i>	20	20
<i>Carbohydrate</i>	70	35
<i>Fat</i>	10	45

Supplemental Table 2 Sequence of primers used in quantitative real-time PCR

Gene	Sense primer	Antisense primer
TNF α	AGCCCACGTCGTAGCAAACCAC	ACACCCATTCCCTTCACAGAGC
IL-6	TCCAGTTGCCTTCTTGGGAC	GGTCTGTTGGAGTGGTATCC
IFN- γ	AGCAAGGC GAAAAGGATGC	TCATTGAATGCTTGGCGCTG
NF- κ B	CCCTACGGA ACTGGGCAAAT	GCGGAATCGAAATCCCCTCT
iNOS	AAGATGGCCTGGAGGAATGC	TGCTGTGCTACAGTTCCGAG
β -actin	ATGTGGATCAGCAAGCAGGA	AAGGGTGTAAAACGCAGCTCA

Supplemental Table 3 Fecal fatty acid composition and content of male C57BL/6 mice ($\mu\text{L/g}$)

Item	Total fecal acid
HFD	5.353 ± 0.122^a
BRA	7.922 ± 0.250^b
BSA	13.495 ± 0.203^c
PCA	6.354 ± 0.425^{ab}
OL	15.104 ± 0.632^d
NC	19.519 ± 0.571^e

Values are expressed as mean \pm SD. The means marked with different letters are significantly differences compared with the other groups ($p < 0.05$). NC, low-fat diet control; HFD, high-fat diet control; OL, high-fat diet plus Orlistat at 100 mg/kg; BRA, high-fat diet plus black rice anthocyanin at 200 mg/kg; BSA, high-fat diet plus black soybean anthocyanin at 200 mg/kg; PCA, high-fat diet plus purple corn anthocyanin at 200 mg/kg. The means marked with superscript letters are significantly different relative to others.