

Supplementary files

Table S1. Subcutaneous, abdominal and perirenal fat weight, plus liver, left and right kidneys, heart, spleen and full gastrointestinal weight (LSM \pm SEM) in F1 males at 74 days old (age at slaughter)

Post weaning diet	P_HE	P_HE	P_HE	P_HE	P_LE	P_LE	P_LE	P_LE
Maternal diet	M_HE	M_HE	M_LE	M_LE	M_HE	M_HE	M_LE	M_LE
Litter size	10_litter	5_litter	10_litter	5_litter	10_litter	5_litter	10_litter	5_litter
	(n=6)	(n=6)	(n=6)	(n=5)	(n=6)	(n=6)	(n=6)	(n=6)
Subcutaneous fat	1.08 \pm 0.14	1.10 \pm 0.14	1.04 \pm 0.14	0.79 \pm 0.16	0.48 \pm 0.14	0.42 \pm 0.14	0.48 \pm 0.14	0.29 \pm 0.14
Abdominal fat	1.62 \pm 0.29	1.94 \pm 0.29	1.50 \pm 0.29	1.15 \pm 0.31	0.76 \pm 0.29	0.66 \pm 0.29	0.73 \pm 0.29	0.60 \pm 0.29
Perirenal fat	0.41 \pm 0.07	0.59 \pm 0.07	0.35 \pm 0.07	0.27 \pm 0.07	0.13 \pm 0.07	0.14 \pm 0.07	0.07 \pm 0.07	0.05 \pm 0.07
Liver	2.15 \pm 0.11	2.17 \pm 0.11	2.29 \pm 0.11	2.43 \pm 0.12	1.89 \pm 0.11	2.12 \pm 0.11	1.95 \pm 0.11	2.34 \pm 0.11
Left kidney	0.34 \pm 0.02	0.34 \pm 0.02	0.33 \pm 0.02	0.36 \pm 0.02	0.30 \pm 0.02	0.32 \pm 0.02	0.30 \pm 0.02	0.30 \pm 0.02
Right kidney	0.36 \pm 0.02	0.38 \pm 0.02	0.39 \pm 0.02	0.36 \pm 0.02	0.30 \pm 0.02	0.35 \pm 0.02	0.29 \pm 0.02	0.31 \pm 0.02
Heart	0.33 \pm 0.02	0.34 \pm 0.02	0.28 \pm 0.02	0.33 \pm 0.02	0.25 \pm 0.02	0.27 \pm 0.02	0.24 \pm 0.02	0.30 \pm 0.02
Spleen	0.24 \pm 0.03	0.24 \pm 0.03	0.22 \pm 0.03	0.29 \pm 0.03	0.17 \pm 0.03	0.22 \pm 0.03	0.18 \pm 0.03	0.21 \pm 0.03
Full gastrointestinal	5.01 \pm 0.29	5.10 \pm 0.29	4.82 \pm 0.29	5.43 \pm 0.32	5.91 \pm 0.29	6.13 \pm 0.29	5.41 \pm 0.29	6.08 \pm 0.29

P_HE, High energy post weaning diet; P_LE, Low energy post weaning diet; M_HE, High energy maternal diet; M_LE, Low energy maternal diet; 10_litter, litter adjusted to 10 pups; 5_litter, litter adjusted to 5 pups.

Table S2. Abdominal fat plus left and right mammary glands weights (LSM \pm SEM) in F1 female at day 18 of lactation of F2 (age of slaughter)

Post weaning diet	P_HE	P_HE	P_HE	P_HE	P_LE	P_LE	P_LE	P_LE
Maternal diet	M_HE	M_HE	M_LE	M_LE	M_HE	M_HE	M_LE	M_LE
Litter size	10_litter	5_litter	10_litter	5_litter	10_litter	5_litter	10_litter	5_litter
	(n=7)	(n=7)	(n=5)	(n=5)	(n=6)	(n=3)	(n=6)	(n=6)
Abdominal fat	1.10 \pm 0.31	2.85 \pm 0.31	1.27 \pm 0.36	1.04 \pm 0.36	0.12 \pm 0.33	0.20 \pm 0.47	0.13 \pm 0.33	0.37 \pm 0.33
Left glands	0.74 \pm 0.06	0.92 \pm 0.06	0.73 \pm 0.07	0.62 \pm 0.07	0.60 \pm 0.07	0.51 \pm 0.10	0.44 \pm 0.02	0.56 \pm 0.07
Right glands	0.73 \pm 0.05	0.96 \pm 0.05	0.71 \pm 0.06	0.61 \pm 0.06	0.45 \pm 0.05	0.52 \pm 0.08	0.43 \pm 0.05	0.53 \pm 0.05

P_HE, High energy post weaning diet; P_LE, Low energy post weaning diet; M_HE, High energy maternal diet; M_LE, Low energy maternal diet; 10_litter, litter adjusted to 10 pups; 5_litter, litter adjusted to 5 pups.

Table S3. F1 female body weight and F2 offspring growth slopes p-values (LSM \pm SEM) during lactation

Post weaning diet	P_HE	P_HE	P_HE	P_HE	P_LE	P_LE	P_LE	P_LE
Maternal diet	M_HE	M_HE	M_LE	M_LE	M_HE	M_HE	M_LE	M_LE
Litter size	10_litter	5_litter	10_litter	5_litter	10_litter	5_litter	10_litter	5_litter
F1 female BW	0.24 \pm 0.33	0.23 \pm 0.46	0.12 \pm 0.26	0.56 \pm 0.29	0.49 \pm 0.20	0.54 \pm 0.05	0.66 \pm 0.19	0.76 \pm 0.13
F2 offspring growth	5.69 \pm 0.59	5.81 \pm 0.40	5.58 \pm 0.48	6.02 \pm 0.48	5.73 \pm 0.50	5.47 \pm 0.49	5.89 \pm 0.28	5.76 \pm 0.48

P_HE, High energy post weaning diet; P_LE, Low energy post weaning diet; M_HE, High energy maternal diet; M_LE, Low energy maternal diet; 10_litter, litter adjusted to 10 pups; 5_litter, litter adjusted to 5 pups.