

Table S1 Dietary Composition for low fat diets (D1250J)

Ingredient	Soy protein, g/kg	Chicken protein, g/kg	Pork protein, g/kg	Energy, kcal
Protein Powder,80 Mesh	184.87	189.56	184.70	800
L-Cystine	2.84	2.84	2.84	12
Corn Starch	479.79	479.79	479.79	2025
Maltodextrin 10	118.48	118.48	118.48	500
Sucrose	65.21	65.21	65.21	275
Cellulose,BW200	47.39	47.39	47.39	0
Soybean oil	23.70	23.70	23.70	225
Lard	18.96	18.96	18.96	180
Mineral Mix S10026	8.67	11.31	10.85	0
DiCalcium Phosphate	15.26	12.82	18.07	0
Calcium Carbonate	8.20	9.86	6.01	0
Potassium Citrate, 1H ₂ O	21.14	21.22	18.96	0
Vitamin Mix V10001	9.48	9.48	9.48	40
Choline Bitartrate	1.90	1.90	1.90	0
FD&C Yellow Dye #5	0.05	0.05	0.05	0
FD&C Red Dye #40	0	0	0	0
FD&C Blue Dye #1	0	0	0	0
Total	1005.93	1012.56	1006.37	4057

Table S1 Dietary composition for high fat diets (D12492) (continued)

Ingredient	Soy protein, g/kg	Chicken protein, g/kg	Pork protein, g/kg	Energy, kcal
Protein Powder,80 Mesh	252.05	258.65	258.46	800
L-Cystine	3.88	3.88	3.88	12
Corn Starch	0	0	0	0
Maltodextrin 10	161.53	161.53	161.53	500
Sucrose	88.91	88.91	88.91	275
Cellulose,BW200	64.61	64.61	64.61	0
Soybean oil	32.31	32.31	32.31	225
Lard	316.60	316.60	316.60	2205
Mineral Mix S10026	8.57	10.00	10.35	0
DiCalcium Phosphate	12.40	12.54	15.65	0
Calcium Carbonate	10.29	10.00	7.72	0
Potassium Citrate, 1H ₂ O	21.06	16.40	17.76	0
Vitamin Mix V10001	12.92	12.92	12.92	40
Choline Bitartrate	2.58	2.58	2.58	0
FD&C Yellow Dye #5	0	0	0	0
FD&C Red Dye #40	0	0	0	0
FD&C Blue Dye #1	0.06	0.06	0.06	0
Total	987.77	990.99	993.34	4057

Note: These diets are formulated in such a way that the animals in the low and high-fat groups will consume the same number of calories.

The “Original” High-Fat Diets for Diet Induced Obesity Formulated by Research Diets, Inc.

Table S2. Primer sequences for Muc2 and inflammation cytokines

Genes	Forward Primer	Reverse Primer
β -actin	GGGTCAGAAGGACTCCTATG	GTAACAATGCCATGTTCAAT
Muc-2	GCTATGTGCCTGGCTCTAATATGG	GTGGGCACTTCACAGAGCAGAC
IL-1 β	TGCCTCTGATGGGCAACCAC	TGCGGGCTATGACCAATTCATCC
TGF- β	ACTGGAGTTGTACGGCAGTG	GGCTGATCCCGTTGATTTCC
TNF- α	GTGCCAGCCGATGGGTTGTA	GGGTGAGGAGCACGTAGTCG
IL-22	CCGGCTCATCGGGGAGAAAC	ACAGCAGGTCCAGTTCCCCA