

Table. Diet formulations

LFD = 10% energy from fat, HFD = 45% energy from fat

	10E% fat		45E% fat	
	gm%	kcal%	gm%	kcal%
Protein	19	20	24	20
Carbohydrate	67	70	40	35
Fat	4	10	24	45
Total	100	100	100	100
kcal/gm	3.8		4.7	
Ingredient	gm	kcal	gm	kcal
Casein, lactic	200	800	200	800
L-Cystine	3	12	3	12
Corn Starch	427,2	1709	72,8	291
Maltodextrin	100	400	100	400
Sucrose	172,8	691	172.8	691
Cellulose, BW200	50	0	50	0
Soybean Oil	25	225	25	225
Palm oil	20	180	177.5	1598
Mineral Mix S10026*	10	0	10	0
DiCalcium Phosphate	13	0	13	0
Calcium Carbonate	5,5	0	5,5	0
Potassium Citrate, 1 H2O	16,5	0	16.5	0
Vitamin Mix V10001*	10	40	10	40
Choline Bitartrate	2	0	2	0
Total	1055	4057	858	4057

Based on OpenSource Diets formulations D12450B (LFD) and D12451 (HFD)

[<http://www.researchdiets.com/opensource-diets/diet-induced-disease-models/obesity>] , with adaptations regarding type of fat (palm oil was used instead of lard) and carbohydrates. These

modifications were made in order to mimic the fatty acid and carbohydrate composition of the average human diet in Western societies. Thus, the high-fat diet mimics the ratio of saturated to monounsaturated to polyunsaturated fatty acids (40:40:20) in a human diet. It should be noted that in these diets the energy density of all nutrients, except fat and starch, is equal. Diets were prepared by Research Diet Services, Wijk bij Duurstede, The Netherlands.