

1 **Additional file 1**

	10E% fat		20E% fat		30E% fat		45E% fat	
	gm%	kcal%	gm%	kcal%	gm%	kcal%	gm%	kcal%
Protein	19	20	20	20	22	20	24	20
Carbohydrate	67	69	60	60	53	50	40	35
Fat	4	10	9	20	14	30	24	45
Other	10	1	11	1	11	1	12	1
Total	100	100	100	100	100	100	100	100
kcal/gm	3.8		4.1		4.3		4.7	
<b>Ingredient</b>								
	<b>gm</b>	<b>kcal</b>	<b>gm</b>	<b>kcal</b>	<b>gm</b>	<b>kcal</b>	<b>gm</b>	<b>kcal</b>
Casein, lactic	200	800	200	800	200	800	200	800
L-Cystine	3	12	3	12	3	12	3	12
<b>Corn Starch</b>								
	<b>427.2</b>	<b>1709</b>	<b>325.8</b>	<b>1303</b>	<b>224.3</b>	<b>897</b>	<b>72.8</b>	<b>291</b>
<b>Maltodextrin</b>	<b>100</b>	<b>400</b>	<b>100</b>	<b>400</b>	<b>100</b>	<b>400</b>	<b>100</b>	<b>400</b>
<b>Sucrose</b>	<b>172.8</b>	<b>691</b>	<b>172.8</b>	<b>691</b>	<b>172.8</b>	<b>691</b>	<b>172.8</b>	<b>691</b>
<b>Cellulose, BW200</b>								
	<b>50</b>	<b>0</b>	<b>50</b>	<b>0</b>	<b>50</b>	<b>0</b>	<b>50</b>	<b>0</b>
<b>Soybean Oil</b>								
	<b>25</b>	<b>225</b>	<b>25</b>	<b>225</b>	<b>25</b>	<b>225</b>	<b>25</b>	<b>225</b>
<b>Palm oil</b>	<b>20</b>	<b>180</b>	<b>65.2</b>	<b>586</b>	<b>110.2</b>	<b>992</b>	<b>177.5</b>	<b>1598</b>
<b>Mineral Mix S10026*</b>								
	<b>10</b>	<b>0</b>	<b>10</b>	<b>0</b>	<b>10</b>	<b>0</b>	<b>10</b>	<b>0</b>
<b>DiCalcium Phosphate</b>								
	<b>13</b>	<b>0</b>	<b>13</b>	<b>0</b>	<b>13</b>	<b>0</b>	<b>13</b>	<b>0</b>
<b>Calcium Carbonate</b>								
	<b>5.5</b>	<b>0</b>	<b>5.5</b>	<b>0</b>	<b>5.5</b>	<b>0</b>	<b>5.5</b>	<b>0</b>
<b>Potassium Citrate, 1 H2O</b>								
	<b>16.5</b>	<b>0</b>	<b>16.5</b>	<b>0</b>	<b>16.5</b>	<b>0</b>	<b>16.5</b>	<b>0</b>
<b>Vitamin Mix V10001*</b>								
	<b>10</b>	<b>40</b>	<b>10</b>	<b>40</b>	<b>10</b>	<b>40</b>	<b>10</b>	<b>40</b>
<b>Choline Bitartrate</b>								
	<b>2</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>2</b>	<b>0</b>
<b>Total</b>	<b>1055</b>	<b>4057</b>	<b>999</b>	<b>4057</b>	<b>942</b>	<b>4057</b>	<b>858</b>	<b>4057</b>

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3 **Table A1.1: Diet composition.** Main ingredients are in bold (e.g., palm oil is the main source of saturated  
4 fats whereas corn starch is the main source of carbohydrates).

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Feed intake in grams per day (mean and SEM, n = 10)							
10E% fat		20E% fat		30E% fat		45E% fat	
MEAN	SEM	MEAN	SEM	MEAN	SEM	MEAN	SEM
3.396	0.060	3.279	0.072	3.404	0.034	3.196	0.073
Caloric content feed (kcal/gm)							
3.8		4.1		4.3		4.7	
Caloric intake (kcal per mouse per day); mean (n = 10)							
12.905		13.443		14.635		15.020	

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2 **Table A1.2: Food and caloric intake in week 4.** Data refer to the week the mice were killed. We  
3 summarized the mean and standard error of the mean (SEM), based on n = 10 per diet group. The caloric  
4 intake consistently increased from 10 to 45% diets, but the absolute amounts of food intake varied in a  
5 non-significant way.