

Supplementary Table 1. Diets composition

Standard Diet		HFHS Diet	
<i>Macronutrients</i>		<i>Proximate Profile</i>	
Crude Protein	14.3 %	Protein	20.5 %
Fat (ether extract)	0.00	Fat	36.0 %
Carbohydrate available	0.48	Fiber	0.0 %
Crude Fiber	4.1 %	Ash	3.5 %
Neutral Detergent Fiber	18.0 %	Moisture	<10 %
Ash	4.7 %	Carbohydrate	36.2 %
Energy Density	2.9 (12.1) kcal/g(kJ/g)	<i>Caloric Profile</i>	
Calories from Protein	20 %	Protein	0.82 Kcal/gm
Calories from Fat	13 %	Fat	3.24 Kcal/gm
Calories Carbohydrate	67 %	Carbohydrate	1.45 Kcal/gm
<i>Minerals</i>		<i>Amino Acids</i>	
Calcium	0.7 %	Alanine	5.3 gm/kg
Phosphorus	0.6 %	Arginine	7.3 gm/kg
Non-Phytate Phosphorus	0.3 %	Aspartic Acid	12.8 gm/kg
Sodium	0.1 %	Cystine	0.6 gm/kg
Potassium	0.6 %	Glutamic Acid	40.6 gm/kg
Chloride	0.3 %	Glycine	4.9 gm/kg
Magnesium	0.2 %	Histidine	5.5 gm/kg
Zinc	70 mg/kg	Isoleucine	11.0 gm/kg
Manganese	100 mg/kg	Leucine	16.6 gm/kg
Copper	15 mg/kg	Lysine	14.8 gm/kg
Iodine	6 mg/kg	Methionine	7.1 gm/kg
Iron	175 mg/kg	Phenylalanine	8.9 gm/kg
Selenium	0.23 mg/kg	Proline	20.5 gm/kg
<i>Vitamins</i>		Serine	11.4 gm/kg
Vitamin A	6.0 IU/g	Threonine	8.7 gm/kg
Vitamin D3	0.6 IU/g	Tryptophan	2.2 gm/kg
Vitamin E	120 IU/g	Tyrosine	11.4 gm/kg
Vitamin K3 (menadione)	20 mg/kg	Valine	13.0 gm/kg
Vitamin B1 (thiamin)	12 mg/kg	<i>Carbohydrates</i>	
Vitamin B2 (riboflavin)	6 mg/kg	Monosaccharides	1.0 gm/kg
Niacin (nicotinic acid)	54 mg/kg	Disaccharides	243 gm/kg
Vitamin B6 (pyridoxine)	10 mg/kg	Polysaccharides	113 gm/kg
Pantothenic Acid	17 mg/kg	<i>Fatty Acids</i>	
Vitamin B12	0.03 mg/kg	C18:2 Linoleic	36.6 gm/kg
Biotin	0.26 mg/kg	C18:3 Linolenic	3.6 gm/kg
Folate	2 mg/kg	Total Saturated	141 gm/kg
Choline	1030 mg/kg	Total Monounsaturated	162 gm/kg
<i>Amino Acids</i>		Total Polyunsaturated	40.2 gm/kg
Aspartic Acid	0.9 %	<i>Minerals</i>	
Glutamic Acid	2.9 %	Calcium	5.6 gm/kg
Alanine	0.9 %	Chloride	0.86 gm/kg
Glycine	0.7 %	Copper	3.6 gm/kg
Threonine	0.5 %	Chromium	0.41 gm/kg
Proline	1.2 %	Fluoride	11.0 gm/kg
Serine	0.7 %	Iodine	0.31 gm/kg
Leucine	1.4 %	Iron	40.8 gm/kg
Isoleucine	0.6 %	Magnesium	0.49 gm/kg
Valine	0.7 %	Manganese	46.7 gm/kg
Phenylalanine	0.7 %	Phosphorus	5.8 gm/kg
Tyrosine	0.4 %	Potassium	5.6 gm/kg
Methionine	0.3 %	Selenium	0.21 gm/kg
Cystine	0.3 %	Sodium	571 gm/kg

Lysine	0.7 %	Sulfur	668 gm/kg
Histidine	0.4 %	Zinc	21.6 gm/kg
Arginine	0.8 %	<i>Vitamins</i>	
Tryptophan	0.2 %	Choline	1148 gm/kg
<i>Fatty Acids</i>		Folic Acid	0.75 gm/kg
C16:0 Palmitic	0.5 %	Niacin	15.0 gm/kg
C18:0 Stearic	0.1 %	Pantothenic Acid	5.5 gm/kg
C18:1 ω 9 Oleic	0.7 %	Pyridoxine	4.1 gm/kg
C18:2 ω 6 Linoleic	2.0 %	Riboflavin	2.3 gm/kg
C18:3 ω 3 Linolenic	0.1 %	Thiamin	3.0 gm/kg
Total Saturated	0.6 %	Vitamin A	3162 IU/kg
Total Monounsaturated	0.7 %	Vitamin B12	40 mcg/kg
Total Polyunsaturated	2.1 %	Vitamin D2	1000 IU/kg
<i>Other</i>		Vitamin E	25.7 IU/kg
Cholesterol	0 mg/kg	Vitamin K3 (Menadione)	0.52 gm/kg
<i>Ingredients</i>			
Lard, Sucrose, Casein, Maltodextrin, Mineral Mix, Vitamin Mix, DL-Methionine, Choline			

Composition of standard and HFHS diets, given by commercial companies