

**Table S1:** Composition of the high fats high carbohydrates (HFHC) diet

<b>Ingredient</b>	<b>Incl(%)</b>	<b>Mix(kg)</b>
Maize	38.98	390.000
Palm Oil	20.99	210.000
Soya Full Fat	14.99	150.000
Wheat Gluten	6.50	65.000
Flour	6.00	60.000
Monodex	5.00	50.000
Sugar - White	5.00	50.000
Limestone	1.00	10.000
Dicalcium Phosphate	0.50	5.000
Vitamin Premix	0.35	3.500
Salt - Fine	0.30	3.000
Amino Acid - DL		
Methionine	0.30	3.000
Mineral Premix	0.10	1.000
	<b>100.01</b>	<b>1000.50</b>

**Table S2:** Nutritional value of the high fats high carbohydrates (HFHC) diet

<b>Nutrient</b>	<b>Units</b>	<b>Actual</b>
Dry Matter	g/kg	919.93
Metabolizable Energy	MJ/kg	15.86
Crude Protein	g/kg	151.27
AShreonine	g/kg	4.51
ASIsolucine	g/kg	5.24
ASLysine	g/kg	6.54
ASMethionine	g/kg	4.86
ASryptophan	g/kg	1.30
ASstidine	g/kg	3.30
ASTSAA	g/kg	6.79
ASValine	g/kg	5.80
Fat	g/kg	250.46
Carbohydrate	g/kg	427.29
Fibre	g/kg	22.08
Ash	g/kg	26.31
Avl Phosphorus	g/kg	1.66

Calcium	g/kg	5.47
Total Phosphorus	g/kg	3.60

**Table S3:** Composition of fats, proteins and carbohydrates of the standard diet.

<b>Fats</b>	15 %
<b>Proteins</b>	30 %
<b>Carbohydrates</b>	35 %
<b>Other components</b>	20%