

**Table S1. Diet compositions.**

	D12492		D12450J		Mineral Mix S10026			
	g	kcal	g	kcal		g	Amt in 10g	
Protein	26	20	19.2	20	Sodium Chloride	259	1.0g	Na
Carbohydrate	26	20	67.3	70			1.6g	Cl
Fat	35	60	4.3	10	Magnesium Oxide, Heavy, DC USP	41.9	0.5g	Mg
Total		100		100	Magnesium Sulfate, Heptahydrate	257.6	0.33g	S
kcal/g	5.24		3.85		Ammonium Molybdate Tetrahydrate	0.3	1.6mg	Mo
	D12492		D12450J		Chromium Posstasium Sulfate <td>1.925</td> <td>2.0mg</td> <td>Cr</td>	1.925	2.0mg	Cr
	g	kcal	g	kcal	Copper Carbonate <td>1.05</td> <td>6.0mg</td> <td>Cu</td>	1.05	6.0mg	Cu
Casein, 30 Mesh	200	800	200	800	Ferric Citrate	21	37mg	Fe
L-Cystine	3	12	3	12	Manganase Carbqnate Hydrate	12.25	59mg	Mn
					Potassium Iodate	0.035	0.2mg	I
corn Starch	0	0	506.2	2024.8	Sodium Fluoride	0.2	0.9mg	Fl
Maltodextrin 10	125	500	125	500	Sodium Selenite	0.035	0.16mg	Se
Sucrose	68.8	275	68.8	275.2	Zinc Carbonate	5.6	29mg	Zn
					Sucrose	399.105	3.9911	
Cellulose, BW200	50	0	50	0				
					Total	1000		
Soybean Oil	25	225	25	225	Vitamin Mix V10001			
Lard	245	2205	20	180		g	Amt in 10g	
					Vitamin A Acetate	0.8	4000 IU	Vitamin A
Mineral Mix S10026	10	0	10	0	(500,000 IU/g)			
DiCalcium Phosphate	13	0	13	0	Vitamin D3	1	1000 IU	Vitamin D3
Calcium Carbonate	5.5	0	5.5	0	(100,00 IU/g)			
Potassium Citrate, 1 H <sub>2</sub> O	16.5	0	16.5	0	Vitamin E Acetate	10	50 IU	Vitamin E
					500 IU/g			
Vitamin Mix V10001	10	40	10	40	Menadione Sodium Bisulfite	0.08	0.5 mg	Menadione
Choline Bitartrate	2	0	2	0	62.5% Menadione			
					Biotine, 1.0%	2	0.2 mg	Biotine
FD&C Blue Dye #1	0.05	0			Cyanocobalamin, 0.1%	1	10 µg	Vitamin B12
FD&Yellow Dye #5			0.04	0	Follic Acid	0.2	2 mg	Follic acid
					Nicotinnic Acid	3	30 mg	Niacin
Total	773.85	4057	1055.05	4057	Calcium Pantothenate	1.6	16 mg	Pantothenic Acid
					Pyridoxine-HCl	0.7	7 mg	Vitamin B6
					Riboflavin	0.6	6 mg	Vitamin B2
					Thiamin-HCl	0.6	6 mg	Vitamin B12
					Sucrose	978.42		
					Total	1000		
					Vitamin E = dl-α-tocopherol acetate			

Vitamin E = dl- $\alpha$ -tocopherol acetate