

TABLE S1. Composition of Test Diets

Component	g/kg	
	Control	Deficient
Vitamin Free Casein	140	140
L-Cysteine	1.8	1.8
Corn Starch	465.692	465.721
Maltodextrin	155.0	155.0
Sucrose	109.75	109.75
Soybean Oil	40.0	40.0
Cellulose	50.0	50.0
Choline Bitartrate	2.5	2.5
TBHQ, antioxidant	0.008	0.008
AIN-93M Mineral Mix	35.0	35.0
Niacin	0.03	0.03
Calcium Pantothenate	0.016	0.016
Pyridoxine HCl	0.007	0.0
Thiamin HCl	0.006	0.006
Riboflavin	0.006	0.006
Folic Acid	0.002	0.002
Biotin	0.0002	0.0002
Vitamin B12 (0.1% in mannitol)	0.0025	0.0
Vitamin E, DL-alpha tocopheryl acetate (500 IU/g)	0.15	0.15
Vitamin A Palmitate (500,000 IU/g)	0.008	0.008
Vitamin D3, cholecaliferol (500,000 IU/g)	0.002	0.002
Vitamin K1, phylloquinone	0.0008	0.0008