

Table S4. The composition of the two different diets of the Control and Early-VDD group.

Nutrient	Control (U/kg diet)	Early-VDD(U/kg diet)
Total energy, <sup>2</sup> kcal	3766.0	3766.0
%as protein	19.3	19.3
%as CHO	64.0	64.0
%as fat	16.7	16.7
Moisture,g	66.0	66.0
Total fat, g	70.0	70.0
Saturated, g	10.8	10.8
Monounsaturated, g	16.3	16.3
Polyunsaturated, g	40.5	40.5
Linoleic acid,g	35.7	35.7
Linolenic acid,g	4.8	4.8
Total carbohydrate,g	643.7	643.7
Complex carbohydrates,g	360.1	360.1
Simple sugars,g	236.1	236.1
Cellulose,g	47.5	47.5
Total protein,g	178.6	178.6
Amino acids (typical analysis)		
Alanine,g	4.6	4.6
Arginine,g	6.4	6.4
Aspartic acid,g	12.2	12.2
Cystine, <sup>3</sup> g	3.7	3.7
Glutamic acid,g	36.3	36.3
Glycine,g	3.2	3.2
Histidine, g	4.6	4.6
Isoleucine,g	8.5	8.5
Leucine,g	15.4	15.4
Lysine,g	13.0	13.0
Methionine, g	4.6	4.6
Phenylalanine,g	8.8	8.8
Proline, g	20.5	20.5
Serine,g	9.7	9.7
Threonine,g	6.7	6.7
Tryptophan,g	2.1	2.1
Tyrosine,g	9.3	9.3
Valine, g	10.0	10.0
Total ash, g	41.7	41.7
Minerals		
Calcium, mg	5000.0	5000.0
Phosphorus, mg	3000.0	3000.0
Magnesium, mg	513.0	513.0
Sodium, mg	1039.0	1039.0

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Potassium,mg	3600.0	3600.0
Chloride, mg	1631.0	1631.0
Sulfur (inorganic), mg	300.0	300.0
Iron, mg	45.0	45.0
Zinc, mg	38.0	38.0
Manganese, mg	10.0	10.0
Copper,mg	6.0	6.0
Iodine, mg	0.2	0.2
Molybdenum,mg	0.15	0.15
Selenium, mg	0.18	0.18
Silicon, mg	5.0	5.0
Chromium, mg	1.0	1.0
Fluoride, mg	1.0	1.0
Nickel, mg	0.5	0.5
Boron, mg	0.5	0.5
Lithium, mg	0.1	0.1
Vanadium, mg	0.1	0.1
Vitamins		
Nicotinic acid, mg	30.0	30.0
Ca pantothenate, mg	15.0	15.0
Pyridoxine, mg	6.0	6.0
Thiamin, mg	5.0	5.0
Riboflavin, mg	6.0	6.0
Folic acid, mg	2.0	2.0
Biotin, mg	0.2	0.2
Vitamin B-12, µg	25.0	25.0
Vitamin K, µg	900.0	900.0
Vitamin E, IU	75.0	75.0
Vitamin A, IU	4000.0	4000.0
Vitamin D,IU	1000.0	25.0
Other nutrients		
Choline, mg	1000.0	1000.0

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