

**Table S1.** Basal diet and proximate chemical composition (on dry matter basis)

Ingredient	(%)	Chemical composition	(%)
Fish meal (65%)	10	Crude protein	30.14
Soybean meal (44%)	36	Crude lipids	6.98
Gluten	5	Ash	7.57
Wheat bran	12	Crude fibers	5.45
Rice bran	10	Gross energy (MJ/kg) <sup>2</sup>	18.44
Yellow corn	12		
Wheat flour	8.92		
Fish oil	3		
Vitamin and mineral mix <sup>1</sup>	2		
Dicalcium phosphate	1		
Vitamin C	0.08		

<sup>1</sup>Vitamin and mineral mixture (per kg premix): vitamin A (3300 IU), vitamin D<sub>3</sub> (410 IU), vitamin B<sub>1</sub> (133 mg), vitamin B<sub>2</sub> (580 mg), vitamin B<sub>6</sub> (410 mg), vitamin B<sub>12</sub> (50 mg), biotin (9330 mg), colin chloride (4000 mg), vitamin C (2660 mg), inositol (330 mg), para-amino benzoic acid (9330 mg), niacin (26.60 mg), pantothenic acid (2000 mg), manganese (325 mg), iron (200 mg), copper (25 mg), iodine, cobalt (5 mg).

<sup>2</sup>Gross energy was calculated based on the values of values for protein, lipid, and carbohydrate as 23.6, 39.5 and 17.2 KJ/g, respectively.