

**Supplementary Table 1** Composition and nutrient levels of the diets (air dry basis, %)

Ingredients (%)	n-6: n-3			
	1:1	2.5:1	5:1	10:1
Corn	65.50	65.50	65.50	65.50
Soybean meal	22.50	22.50	22.50	22.50
Wheat bran	6.60	6.60	6.60	6.60
Soybean oil*	0	1.50	2.25	2.70
Linseed oil	3.00	1.50	0.75	0.30
Dicalcium phosphate	0.50	0.50	0.50	0.50
Limestone	0.60	0.60	0.60	0.60
Salt	0.30	0.30	0.30	0.30
Premix <sup>†</sup>	1.00	1.00	1.00	1.00
<b>Nutrient level (%)</b>				
Digestible energy (MJ/kg)	14.20	14.20	14.20	14.20
Crude protein	15.50	15.50	15.50	15.50
SID <sup>‡</sup> Lysine	0.69	0.69	0.69	0.69
SID Methionine	0.23	0.23	0.23	0.23
Calcium	0.52	0.52	0.52	0.52
Available Phosphorus	0.19	0.19	0.19	0.19
$\Sigma$ n-6: $\Sigma$ n-3*	1.1:1	2.6:1	4.9:1	10.2:1

\*To use 3.00%, 1.50%, 0.75% and 0.30% of linseed oil to replace equivalent amounts of soybean oil, making the dietary n-6:n-3 ratios about 1:1, 2.5:1, 5: 1 and 10:1, respectively.

<sup>†</sup>Premix provided per kilogram diet: retinol acetate, 13500 IU; cholecalciferol, 3600 IU; DL- $\alpha$ -tocopherol acetate, 15 IU; thiamine, 3.0 mg; riboflavin, 7.8 mg; cobalamin, 0.024 mg; pyridoxine, 3.0 mg; menadione, 3.0 mg; pantothenic acid, 150 mg; niacin, 30 mg; choline, 600 mg; folic acid 1.5 mg; biotin, 0.045 mg; Cu (as CuSO<sub>4</sub>·5H<sub>2</sub>O) 10 mg; Fe (as FeSO<sub>4</sub>·7H<sub>2</sub>O) 80 mg; Zn (as ZnSO<sub>4</sub>·7H<sub>2</sub>O) 80 mg; Mn (as MnSO<sub>4</sub>·H<sub>2</sub>O) 10 mg; Se (as Na<sub>2</sub>SeO<sub>3</sub>) 0.30 mg; I (as KI) 0.30 mg.

<sup>‡</sup>SID: standardized ileal digestible.

\*n-6:n-3 = (C18:2):(C18:3 + C22:6)