

Supplementary Table 1. The composition and nutrient levels of basal diet

	Content
Diet composition, %	
Corn	30.18
Extruded corn	29.00
soybean meal	10.76
Extruded soybean	10.00
wheat bran	2.00
Soybean protein concentrate	5.00
Corn starch	0.50
Whey powder	4.00
Fish meal	4.00
CaHPO ₄	0.55
CaCO ₃	0.70
NaCl	0.30
Soybean meal	1.78
L-Lysine • HCl	0.33
DL-Methionine	0.09
L-Threonine	0.15
L-Tryptophan	0.03
Choline chloride	0.10
Vitamin premix ^a	0.03
Mineral premix ^b	0.50
Total	100.00
Nutrient levels, % ^c	
Digestible energy, MJ/kg	14.83
Crude protein	20.56

Calcium	0.80
Available phosphorus	0.40
Total lysine	1.35
Total methionine and cysteine	0.74
Total threonine	0.79
Total tryptophan	0.22

^a Provided the following per kg of diet: Vitamin A, 8000 IU; Vitamin D₃, 1500 IU; Vitamin E, 25 IU; Vitamin K₃, 2.0 mg; Vitamin B₁, 2.0 mg; Vitamin B₂, 5.0 mg; Vitamin B₆, 4.0 mg; Vitamin B₁₂, 0.1 mg; Niacin, 25 mg; Pantothenic, 12 mg; Folic acid, 0.75 mg; Biotin, 0.2 mg.

^b Provided the following per kg of diet: Fe, 100 mg; Cu, 6 mg; Mn, 4 mg; Zn, 100 mg; I, 0.14 mg; Se, 0.35 mg.

^c Nutrient levels were calculated values.