

Table S1 Composition and nutrient level of experimental diet.

Ingredients	%	Nutrient level	contents
Corn	26.54	Digestible energy (MJ/kg)	14.6
Extruded corn	27.66	Crude Protein (%)	19.42
Soybean protein concentrate	2.80	Calcium (%)	0.85
Fish meal	3.00	Available phosphorus (%)	0.43
casein	12.00	Lysine	1.49
Sucrose	5.00	Methionine	0.45
Soybean oil	4.00	Iron(mg/kg) ³	25.8
lactose	8.00		
glucose	8.00		
cellulose	1.20		
Dicalcium phosphate	0.50		
NaCl	0.30		
L -LysineHCl (78%)	0.39		
Chloride choline	0.10		
Vitamin premix ¹	0.01		
Mineral premix ²	0.5		
Total	100		

¹ The vitamin premix provided the following per kg of diet: 9000 IU of VA, 3000 IU of VD 3, 20 IU of VE, 3 mg of VK3, 1.5 mg of VB1, 4 mg of VB2, 3 mg of VB6, 0.2 mg of VB12, 30 mg of niacin, 15 mg of pantothenic acid, 0.75 mg of folic acid, and 0.1 mg of biotin.

² The mineral premix provided the following per kg of diet: 6 mg Cu, 100 mg Zn, 4 mg Mn, 0.30 mg.

³ The content of iron was measured value.