

Table S1 Composition and nutrient level of experimental basal diet

Items	Pregnancy	Lactation
Ingredient, %		
Corn	20.00	29.96
Wheat	13.72	--
Wheatmeal, 14%CP	15.00	15.00
Soybean meal, 46%CP	6.90	8.70
Fermented soybean meal	--	5.80
Expanded soybean	--	5.00
Brown rice mix	10.00	10.00
Sugar beet meal granulate	6.00	--
Rice bran meal	10.00	14.90
Rice bran	5.00	5.00
Soybean skin	7.80	--
Soybean oil	1.55	2.00
Calcium hydrogen phosphate type I	1.75	1.31
Limestone	0.91	1.15
Sodium chloride	0.35	0.35
L-Lys HCl, 98%	0.12	0.12
DL-Met, 98.5%	0.05	0.05
L-Thr, 98%	0.02	0.02
L-Trp, 98%	0.02	0.02
Sodium bicarbonate	0.09	--
Choline chloride, 50%	0.08	0.08
Vitamin and mineral premix <sup>1</sup>	0.64	0.54
Total	100.00	100.00
Nutrient level <sup>2</sup>		
Crude protein, %	13.50	17.00
Calcium, %	0.90	0.85
Total phosphorus, %	0.70	0.60

<sup>1</sup>Per kilogram of diet provided: Cu 20 mg; I 0.4 mg; Fe 110 mg; Mn 40 mg; Se 0.25 mg; Zn 115 mg; VA 10000 IU; VB<sub>1</sub> 6.0 mg; VB<sub>2</sub> 5.0 mg; VB<sub>6</sub> 4.0 mg; VB<sub>12</sub> 30 µg; VD<sub>3</sub> 2200 IU; VE 80 IU; VK<sub>3</sub> 4.0 mg; Biotin 0.3 mg; Folic acid 3.0 mg; Pantothenic acid 20 mg; Nicotinic acid 40 mg.

<sup>2</sup> Crude protein is calculated values, total phosphorus and calcium are measured values.