

**Supplementary Table S1.** Ingredients and nutrient composition of experimental gestation and lactation diets (as-fed basis)

Items	Gestation diet		Lactation diet
	Control	SF <sup>1</sup>	
Ingredient, %			
Corn	54.80	54.80	54.40
Soybean meal, 43%CP	11.50	11.50	26.00
Wheat bran	0.00	0.00	11.00
Soybean hull	14.00	14.00	0.00
Rice bran meal	16.00	14.00	0.00
Calcium carbonate	1.20	1.20	1.51
Dicalcium phosphate	1.00	1.00	1.23
Salt	0.40	0.40	0.26
Mildewcide <sup>2</sup>	0.10	0.10	0.10
Choline chloride	0.00	0.00	1.00
Fiber source	0.00	2.00	0.00
Premix <sup>3</sup>	1.00	1.00	1.50
Nutrient composition			
Net energy, MJ/kg <sup>4</sup>	9.53	9.53	10.36
Crude protein, %	13.96	13.81	18.92
ISF, % <sup>5</sup>	26.95	26.78	14.45
SF, % <sup>6</sup>	2.85	4.04	1.76
NDF, % <sup>7</sup>	20.29	20.21	11.18
ADF, % <sup>8</sup>	5.47	5.42	4.26
Lys, % <sup>4</sup>	0.59	0.59	1.03
Ca, % <sup>4</sup>	0.78	0.75	1.06
Available P, % <sup>4</sup>	0.40	0.40	0.45

<sup>1</sup>SF = 2% fiber of pregelatinized waxy maize starch (95%) plus xanthan gum (5%).

<sup>2</sup>Mildewcide: ammonium propionate.

<sup>3</sup>Provided per kg of diet: Cu, 30 mg; Fe, 160 mg; Zn, 160 mg; Mn, 55 mg; I, 0.5 mg; Se, 0.5 mg; Co, 0.8 mg; Cr, 0.2 mg; Vitamin A, 14000 IU; Vitamin D<sub>3</sub>, 2900 IU; Vitamin E, 120 mg; Vitamin K<sub>3</sub>, 6 mg; Vitamin B<sub>1</sub>, 2.4 mg; Vitamin B<sub>2</sub>, 8.5 mg; Vitamin B<sub>6</sub>, 4.5 mg; Vitamin B<sub>12</sub>, 0.03 mg; Vitamin H, 0.55 mg; Pantothenic acid, 30 mg; Folic acid, 5 mg; Nicotinamide, 50 mg.

<sup>4</sup>Calculated chemical concentrations using values for feed ingredients from the NRC (2012).

<sup>5</sup>insoluble fiber.

<sup>6</sup>solubel fiber.

<sup>7</sup>neutral detergent fiber.

<sup>8</sup>acid detergent fiber.