

Table 1. Formulation and chemical composition of experimental diet

Items	
Ingredients, %	
Extruded corn	47.80
Soybean meal (dehulled)	18.00
Fermented soybean meal	8.00
Fish meal	2.70
Soy oil	3.20
DCP	1.34
Limestone	0.74
Sugar	2.00
Whey protein	8.00
Lactose	6.70
L-Lysine HCL	0.46
DL-Met	0.17
Threonine	0.29
Choline chloride 50%	0.10
Salt	0.10
Mineral premix ¹	0.20
Vitamin premix ²	0.20
Total	100
Nutrients, %	
Protein	19.0
Fat	4.80
Calcium	0.75
Phosphorus	0.65
DE, kcal/kg	3,900
Lys	1.50
Met	0.45
Lactose	12.0

¹Provided per kg diet: Fe, 100 mg as ferrous sulfate; Cu, 17 mg as copper sulfate; Mn, 17 mg as manganese oxide; I, 0.5 mg as potassium iodide; and Se, 0.3 mg as sodium selenite.

²Provided per kilograms of diet: vitamin A, 10,800 IU; vitamin D3, 4,000 IU; vitamin E, 40 IU; vitamin K3, 4 mg; vitamin B1, 6 mg; vitamin B2, 12 mg; vitamin B6, 6 mg; vitamin B12, 0.05 mg; biotin, 0.2 mg; folic acid, 2 mg; niacin, 50 mg; D-calcium pantothenate, 25 mg.

Table 2. Effect of lysozyme supplementation on growth performance in weaning pig¹

Items	NC	PC	Lysozyme	SEM ²	<i>p</i> -value
Initial weight, kg	7.48	7.45	7.46	0.06	0.524
Final weight, kg	9.35	9.48	9.46	0.09	0.486
ADG ³ , g	267	290	286	7.25	0.272
ADFI ⁴ , g	428	430	428	9.43	0.847
G:F ⁵	0.624	0.674	0.669	0.123	0.182

¹NC, basal diet; PC, NC + antibiotics; Lysozyme, NC + 0.1% lysozyme.

²Standard error of means.

³ADG, average daily gain; ⁴ADFI, average daily feed intake; ⁵G:F, gain:feed.

^{a,b}Means in the same row with different superscript differ significantly ($p < 0.05$).

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Table 3. Effect of lysozyme supplementation on nutrient digestibility in weaning pig¹

Items, %	NC	PC	Lysozyme	SEM ²	<i>p</i> -value
Dry matter	78.15 ^b	82.08 ^a	81.61 ^a	0.50	0.009
Nitrogen	77.26	79.65	78.57	0.59	0.096
Energy	78.07 ^b	80.43 ^a	80.31 ^a	0.52	0.046

¹Abbreviation: NC, basal diet; PC, NC + antibiotic 55 mg/kg feed (Aureo S-P 250); Lysozyme, NC + 0.1% lysozyme.

²Standard error of means.

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Table 4. Effect of lysozyme supplementation on microbial in weaning pig¹

Items, log ₁₀ cfu/g	NC	PC	Lysozyme	SEM ²	<i>p</i> -value
Feces					
<i>Lactobacillus</i>	7.09	7.64	7.70	0.03	0.510
<i>E. coli</i>	5.58 ^a	4.07 ^b	4.09 ^b	0.12	0.018
Ileum					
<i>Lactobacillus</i>	7.38	7.96	7.00	0.04	0.420
<i>E. coli</i>	5.50 ^a	4.37 ^b	4.39 ^b	0.10	0.027
Cecum					
<i>Lactobacillus</i>	8.64	8.26	8.79	0.04	0.603
<i>E. coli</i>	5.76 ^a	4.60 ^c	4.77 ^{bc}	0.13	0.020

¹Abbreviation: NC, basal diet; PC, NC + antibiotic 55 mg/kg feed (Aureo S-P 250); Lysozyme, NC + 0.1% lysozyme.

²Standard error of means.

^{a,b,c}Means in the same row with different superscript differ significantly ($p < 0.05$).

Table 5. Effect of lysozyme supplementation on blood profile in weaning pig¹

Items	NC	PC	Lysozyme	SEM ²	<i>p</i> -value
WBC ³ , 10 ³ /μℓ	18.7 ^a	14.7 ^b	14.3 ^b	0.47	0.018
RBC ⁴ , 10 ⁶ /μℓ	6.4	5.7	5.9	0.12	0.244
Lymphocyte, %	69.8	60.4	62.1	1.36	0.083
Epinephrine, pg/mL	658 ^a	382 ^b	357 ^b	38	0.002
Norepinephrine, pg/mL	1466	1151	1292	162	0.172
Cortisol, ug/dL	5.7 ^a	2.1 ^b	2.0 ^b	0.35	0.001

¹Abbreviation: NC, basal diet; PC, NC + antibiotic 55 mg/kg feed (Aureo S-P 250); Lysozyme, NC + 0.1% lysozyme.

²Standard error of means.

³WBC, white blood cells; ⁴RBC, red blood cells.

^{a,b}Means in the same row with different superscript differ significantly ($p < 0.05$).