

Supplementary Materials
Table S1. Composition and nutrient levels of the basal diet

Ingredients	%
Corn	65.8
Soybean meal	24
Soybean oil	2.5
Fish meal	1.5
Limestone	0.85
CaHPO ₄	1
Salt	0.35
Premix ^a	4
Nutrient	
Digestive energy(MJ/kg) ^b	1525
Protein (%) ^b	18.5
Calcium (%) ^b	0.70
Phosphorus (%) ^b	0.55
Lysine (%) ^b	1.32
Crude fibre (%) ^b	3.25

^a Supplied per kilogram of diet: vitamin A, 2200 IU; vitamin D-3,220 IU; vitamin E, 16 IU; vitamin K-3, 0.5 mg; biotin, 0.05 mg; folic acid, 0.3 mg; pantothenic acid, 10 mg; niacin, 15 mg; vitamin B2, 3.6 mg; vitamin B1, 1.0 mg; vitamin B6, 1.5 mg; Cu, 6 mg; Fe, 100 mg; Zn 110 mg; Mn, 4 mg; Se, 0.3 mg; I, 0.14 mg

^b calculated value

Table S2 Primer sequences used in quantitative real-time PCR assays

Gene	Accession no.	Primer, 5'–3'
<i>IL-1β</i>	NM_214055.1	AAG TGG TGT TCT GCA TGA GC AAG ACG GGC TTT TGT TCT GC
<i>TNF-α</i>	X57321.1	TCC ACC AAC GTT TTC CTC AC TGC CCA GAT TCA GCA AAG TC
<i>IL-10</i>	NM_214041.1	TCA AAC GAA GGA CCA GAT GGG ACG GCC TTG CTC TTG TTT TC
β -actin	XM_003124280.4	CGG CAT CCA CGA AAC TAC CT ACT CCT GCT TGC TGA TCC AC
<i>TLR4</i>	EU716413.1	ACA GGT ATC CCA GAG GGC AT AGC TGC TTC TGG TCC TTG AC
<i>TLR2</i>	NM_213761.1	CGT GTG CTA TGA CGC TTT CG GGA AGT GGG AGA AGT CCA GC

IL-1β, Interleukin-1 alpha; *TNF-β*, Tumor necrosis factor-beta; *IL-10*, Interleukin-10; β -actin, Beta-actin; *TLR4*, Toll like receptor 4; *TLR2*, Toll like receptor 2.

Table S3. Primers used for intestinal bacteria

Items	Primer sequence (5'-3')	Annealing temperature (°C)	Reference
Total bacteria	ACTCCTACGGGAGGCAGCAG ATTACCGCGGCTGCTGG	60	[59, 61]
<i>Escherichia coli</i>	CATGCCGCGTGTATGAAGAA CGGGTAACGTCAATGAGCAAA	60	[61]
<i>Bifidobacterium</i>	CGCGTCCGGTGTGAAAG CTTCCCGATATCTACACATTCCA	60	[61]
<i>Lactobacillus</i>	GAGGCAGCAGTAGGGAATCTTC CAACAGTFACTCTGACACCCGTTCTTC	60	[61]
<i>Enterococcus</i>	CCCTTATTGTTAGTTGCCATCATT ACT CGTTGTAICTTCCCATTGT	60	[60, 61]
<i>Clostridium</i>	GAGTTTGATCMTGGCTCAG CCCTTTACACCCAGTAA	60	[60, 61]