

Supplemental Table 1. Mean count of raw sequences among the 5 intervention groups

Items	BD group	IS group	Arg group	Glu group	Arg_Glu group
Effective sequences	45,905	45,278.5	37,006	39,023	39,717

Supplemental Table 2. Composition and nutrient levels of the experimental diets^a (as-fed basis)

Ingredient, %	BD group	IS group	Arg group	Glu group	Arg_Glu group
Corn	76.3	76.3	76.3	76.3	76.3
Soybean meal	16.5	16.5	16.5	16.5	16.5
Soybean oil	0.56	0.56	0.56	0.56	0.56
Corn starch	2.44	0.39	1.44	—	0.44
CaHPO ₄	0.65	0.65	0.65	0.65	0.65
Calcium carbonate	1.08	1.08	1.08	1.08	1.08
Salt	0.43	0.43	0.43	0.43	0.43
Lys	0.16	0.16	0.16	0.16	0.16
Thr	0.08	0.08	0.08	0.08	0.08
Trp	0.05	0.05	0.05	0.05	0.05
Ala	—	2.05	—	1.44	—
Arg	—	—	1.00	—	1.00
Glu	—	—	—	1.00	1.00
Leu	—	—	—	—	—
Premix ^b	1.75	1.75	1.75	1.75	1.75

^aIS group = basal diet supplemented with 2.05% Ala; Arg group = basal diet supplemented with 1.00% Arg; Glu group = basal diet supplemented with 1.00% Glu+1.44% Ala; and Arg_Glu group = basal diet supplemented with 1.00% Arg+1.00% Glu.

^bPremix provided for 1 kg of complete diet: Cu as copper sulfate, 10 mg; Fe as iron sulfate, 100 mg; Se as sodium selenite, 0.30 mg; Zn as zinc oxide, 100 mg; Mn as manganese oxide, 10 mg; vitamin D₃, 386 IU; vitamin A as retinyl acetate, 3 086 IU; vitamin E as D- α -tocopherol, 15.4 IU; vitamin K as menadione sodium bisulfate, 2.3 mg; vitamin B₂, 3.9 mg; calcium pantothenate, 15.4 mg; niacin, 23 mg; and vitamin B₁₂, 15.4 mg.

Supplemental Table 3. Nutrient levels of the experimental diets^a

Ingredient, %	BD group	IS group	Arg group	Glu group	Arg_Glu group
Digestive energy, MJ/kg	14.26	14.17	14.21	14.15	14.18
Crude protein (CP), %	13.04	14.88	14.88	14.88	15.31
Crude fiber (CF), %	2.42	2.42	2.42	2.42	2.42
Crude fat, %	5.94	5.94	5.94	5.94	5.94
Calcium, %	0.62	0.62	0.62	0.62	0.62
Total phosphorus, %	0.42	0.42	0.42	0.42	0.42
Available phosphorus (AP), %	0.2	0.2	0.2	0.2	0.2
Amino acid Composition ^a , %					
Asp + Asn	1.73	1.73	1.73	1.73	1.73
Thr	0.79	0.79	0.79	0.79	0.79
Ser	0.8	0.8	0.8	0.8	0.8
Glu + Gln	3.06	3.06	3.06	4.04	4.04
Gly	0.95	0.95	0.95	0.95	0.95
Ala	1.09	3.14	1.09	1.09	1.09
Val	0.83	0.83	0.83	0.83	0.83
Met	0.24	0.24	0.24	0.24	0.24
Ile	0.79	0.79	0.79	0.79	0.79
Leu	1.5	1.5	1.5	1.5	1.5
Tyr	0.48	0.48	0.48	0.48	0.48
Trp	0.16	0.16	0.16	0.16	0.16
Phe	0.77	0.77	0.77	0.77	0.77
His	0.62	0.62	0.62	0.62	0.62
Lys	0.85	0.85	0.85	0.85	0.85
Arg	1.01	1.01	2.01	1.01	2.01
Pro	1.56	1.56	1.56	1.56	1.56
Cys	0.28	0.28	0.28	0.28	0.28

^aAnalyzed values in the basal diet group, and nutrient contents in the other groups were calculated according to their contents in the basal diet group.