

Table S1. Composition and nutrient levels of the basal feed (DM basis)

Items	Feeding stage				
	I 1~30 d	II 31~60 d	III 61~90 d	IV 91~120 d	V 121~270 d
Ingredients					
Corn silage	45.00	40.00	30.00	25.00	20.00
Whole cottonseed	0.00	0.00	0.00	0.00	10.78
Flattened corn	14.84	10.00	8.00	5.00	10.00
Corn	25.17	41.36	51.06	59.93	54.36
Soybean meal	8.21	3.20	0.00	2.00	0.00
Rapeseed meal	0.00	0.54	5.17	3.57	0.00
Cottonseed meal	0.00	2.00	2.00	1.00	1.00
Pea protein powder	3.49	0.00	0.00	0.00	0.00
Fatty acid calcium	0.00	0.00	0.00	0.00	1.00
CaHPO ₄	1.12	0.80	1.10	1.28	0.65
NaCl	0.62	0.30	0.47	0.50	0.47
NaHCO ₃	1.11	1.00	1.28	1.00	1.15
MgO	0.00	0.19	0.28	0.16	0.13
Premix ¹	0.44	0.61	0.64	0.56	0.46
Total	100.00	100.00	100.00	100.00	100.00
Nutrition levels²					
CP (%)	11.94	10.95	10.80	10.60	9.80
TDN (%)	72.10	76.54	77.51	78.74	80.52
NEm (MJ/kg)	7.44	7.97	8.14	8.31	8.53
NEg (MJ/kg)	4.92	5.31	5.47	5.61	5.80
Calcium (%)	0.61	0.50	0.59	0.63	0.37
Phosphorus (%)	0.31	0.33	0.36	0.35	0.34

¹ Contained the following per kg of premix: vitamin A 4,000,000 IU, vitamin D₃ 600,000 IU, vitamin E 120,000 IU, Mn 3,340 mg, Fe 4,800 mg, Zn 12,600 mg, Cu 3,140 mg, Se 60 mg, I 90 mg, Co 22 mg, nicotinic acid 5,970 mg, biotin 200 mg.

² Total digestible nutrients (TDN), net energy maintenance (NEm), and net weight gain (NEg) were calculated values, whereas the others were measured values.