

Supplementary Table 1. The ingredients and nutrient level of the basal diet in sows from late gestation to parturition

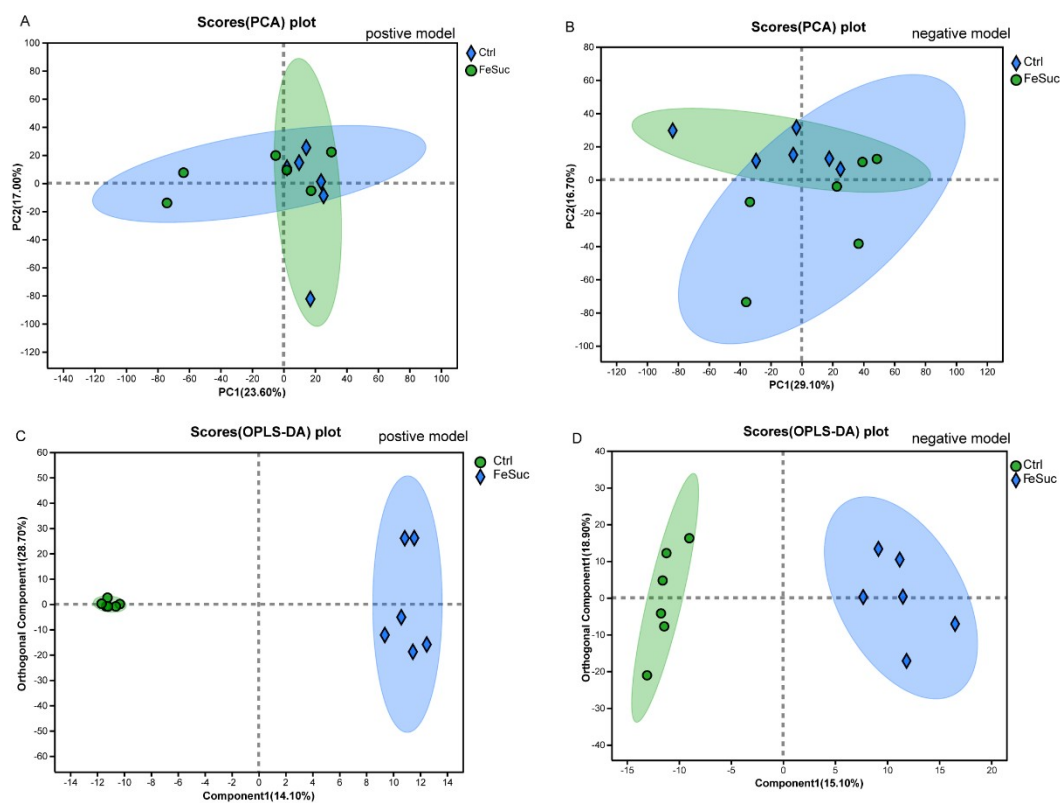
Composition	Content (%)
Corn	65
Soybean meal (46% CP)	11.2
soybean hulls	6
extruded soybean	5
extruded flaxseed	2
fish meal	5
soybean oil	1
L-lysine HCl (70%)	0.23
CaHPO ₄ (16.5%)	1.2
NaCl	0.4
L-threonine (98.5%)	0.12
Tryptophan	0.05
DL-methionine (98.5%)	0.06
Limestone	1
Tryptophan (25%)	0.05
Choline chloride	0.14
Valine (85%)	0.12
NaHCO ₃	0.18
Premix ^a	1
yeast hydrolysate	0.25
Nutrient levels	Content (%)
Crude protein	13.10
Digestible energy, MJ/kg	12.58
Crude fibre	4.5
SID Lys	0.91

^a The vitamin–mineral premix provided the following per kilogram of diets: antioxidant 100 mg, sweetening agent 200 mg, 4000 IU of vitamin A, 800 IU of vitamin D3, 44 IU of vitamin E, 0.5 mg of vitamin K3, 0.2 mg of biotin, 1250 mg of choline chloride, 1.3 mg of folic acid, 10.0 mg of niacin, 12.0 mg of pantothenic acid, 3.75 mg of riboflavin, 6.0 mg of riboflavin, 15 mg of vitamin B6, 14 mg of Cu as CuSO₄·5H₂O, 0.2 mg of I as KI, 40 mg of Mn as MnSO₄·H₂O, 40 mg of Zn as ZnSO₄·H₂O, 0.20 mg of Se as Na₂SeO₃.

Supplementary Table 2. Primers used for gene expression analysis

Assay	Nucleotide sequence of primers (5'-3')	Accession No.
<i>GAPDH</i>	F: TGGTGAAGGTCGGAGTGAAC	NM_001206359.1
	R: TGTAGTGGAGGTCAATGAAGGG	
<i>CCL24</i>	F: AAATTCCCGAGAGCCGAGTG	XM_021085920.1
	R: ATCGCCCTGATCCTAGTGGA	
<i>IL-10</i>	F: TCCGACTCAACGAAGAAGGC	NM_214041.1
	R: AACTCTTCACTGGGCCGAAG	
<i>CCR10</i>	F: GCCATTTCGGGCCTTACTC	NM_001044563.1
	R: AGCGATAACAGCCACACGAC	
<i>IL-5</i>	F: TGCTTCTGCATTTGAGTTTGCT	NM_214205.1
	R: TCGCCTATCAGCAGAGTTTCG	

Supplementary figure 1.



PCA and OPLS-DA analysis between FeSur and Ctrl group in the positive and negative model for the comparison of the metabolic changes.

