**Table S1.** Ingredients and nutrients composition of the diet for Meishan sows

|  |  |  |  |
| --- | --- | --- | --- |
| Ingredients | Percentage, % | Nutrition component (% calculated) | Content |
| Maize | 65.00 | Crude protein | 13.45 |
| Soybean meal (CP, 43%) | 10.00 | Ash | 1.68 |
| Wheat bran | 15.75 | Coarse fibre | 3.43 |
| Soybean oil | 2.00 | Calcium | 0.70 |
| Dicalcium phosphate | 1.00 | Phosphorus | 0.52 |
| Limestone | 1.25 | DE (Mcal/kg) | 3.10 |
| Mineral and vitamin premixa | 5.00 |  |  |
| Total | 100.00 |  |  |

a Provided per kg of complete diet: vitamin A, 6,000 IU; vitamin D, 2,000 IU; vitamin E, 40 mg; vitamin B1, 2.5 mg; vitamin B2, 7 mg; vitamin B12, 0.05 mg; folic acid, 2.0 g; pantothenic acid, 15 mg; biotin, 0.5 mg; Fe, 60 mg; Cu, 5 mg; Zn, 60 mg; Se, 0.10 mg.

**Table S2.** Ingredients and nutrients composition of the diet for L×Y sows

|  |  |  |  |
| --- | --- | --- | --- |
| Ingredients | Percentage, % | Nutrition component (% calculated) | Content |
| Maize | 16.55 | Crude protein | 13.19 |
| Soybean meal (CP, 43%) | 5.50 | Ash | 1.69 |
| Brown rice | 16.00 | Coarse fibre | 3.59 |
| Wheat flour | 10.00 | Calcium | 0.74 |
| Wheat bran | 36.00 | Phosphorus | 0.49 |
| Wheat | 10.00 | DE (Mcal/kg) | 2.92 |
| Soybean oil | 1.50 |  |  |
| Dicalcium phosphate | 0.80 |  |  |
| Limestone | 1.15 |  |  |
| Mineral and vitamin premixa | 2.50 |  |  |
| Total | 100.00 |  |  |

a Provided per kg of complete diet: vitamin A, 10,000 IU; vitamin D, 3,000 IU; vitamin E, 58 mg; vitamin B1, 3 mg; vitamin B2, 8 mg; vitamin B12, 0.03 mg; folic acid, 2.0 g; pantothenic acid, 20 mg; biotin, 0.2 mg; Fe, 70 mg; Cu, 15 mg; Zn, 90 mg; Se, 0.08 mg.