Supplemental Table S1 Composition and nutrient levels of basal diets (air-dry basis)

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| Ingredients (%) | Content | Calculated chemical composition | Content |
| Corn | 7.00 | digestive energy (MJ/kg) | 10.28 |
| Wheat shorts | 16.00 | Crude protein % | 17.43 |
| Soybean meal | 8.00 | Crude fiber % | 19.81 |
| Germ | 15.00 | Crude fat % | 2.95 |
| Guinea grass | 20.00 | Ca % | 0.83 |
| Sunflower meal | 12.50 | P % | 0.35 |
| Husk powder | 13.00 |  |  |
| Expanded soybean | 4.00 |  |  |
| Bean oil | 0.75 |  |  |
| Phospholipid | 0.75 |  |  |
| Premix\* | 3.00 |  |  |
| Total | 100.00 |  |  |

 \* The premix provided the following per kg of diets: VA 20000 IU, VD3 2000 IU, VE 40 mg, VK3 6 mg, VB1 2 mg, VB2 12 mg, VB3 60 mg, VB5 20 mg, VB7 0.1 mg, VB9 2 mg, VB12 0.04 mg, choline chloride, 400 mg, Fe (as ferrous sulfate) 60 mg, Zn (as zinc sulfate) 60 mg, Mn (as manganese sulfate) 3 mg, I (as potassium iodide) 0.2 mg, Se (as sodium selenite) 0.2 mg, CaHPO4 15 g, NaCl 5 g, Lys 1 g, Met 2 g, 10% bacitracin zinc 300 mg.