

Table S1. Botanical composition of the basal diet

| Ingredients (g/kg) | Basal diet |
|---------------------------------|------------|
| Maize | 433.5 |
| Wheat | 150.0 |
| Soybean meal (46 % CP) | 261.0 |
| Rapeseed meal | 60.0 |
| Vegetable oil (non GMO) | 59.5 |
| Limestone (CaCO ₃) | 12.3 |
| L-Lysine (78%) | 3.0 |
| L-Threonine | 0.9 |
| L-Methionine | 2.6 |
| Mono-calcium-phosphate (MCP) | 9.0 |
| Salt (NaHCO ₃ +NaCl) | 3.0 |
| Premix (Vit./Min.) ¹ | 5.2 |

¹ feed additives per kg as fed: vitamin A (3a672a) 10000 IU, vitamin D3 (3a671) 4000 IU, vitamin E (all-rac-alpha-tocopherylacetate) (3a700) 38 IU, selenium (3b801, Na-selenite) 0.34 mg, copper (3b405, Cu(II)-sulfate, pentahydrate) 6.5 mg, copper (3b4.10, Cu-chelate of methionine hydroxy-analogue) 8.3 mg, zinc (3b603, Zn-oxide) 31.2 mg, zinc (3b6.10, Zn-chelate of methionine hydroxy-analogue) 34.6 mg, manganese (3b502, Mn-(II)-oxide) 20.8 mg, manganese (3b5.10, Mn-chelate of methionine hydroxy-analogue) 34.6 mg, iron (3b103, Fe-(II)-sulfate, monohydrate) 76.6 mg, iodine (3b202, Ca-iodate) 1.1 mg, calcium salt of methionine hydroxy-analogue 2.23 g, 6-Phytase EC 3.1.3.26 (Quantum Blue) (4a19) 260 FTU, Endo-1,4-Beta-Xylanase EC 3.2.1.8 (4a15) 610 U, Endo 1,3 (4)-β-Glucanase EC 3.2.1.6 (4a15) 76 U, Butylated hydroxytoluene (E321) 60.8 mg, sepiolite (E 562) 0.3 mg