

**Table S1.** Chemical composition of starter and grower diets.

Item [g/kg DM]	Starter diet <sup>1</sup>	Grower diet <sup>2</sup>
Dry matter	879.00	880.00
Crude ash	62.37	53.48
Crude protein	255.32	234.30
Crude fat	73.12	77.24
Crude fibre	27.66	26.46
Starch	404.26	437.22
Sugar	53.30	49.10
Nitrogen free extract	581.52	608.52
AME <sub>n</sub> <sup>3</sup> , MJ/kg	13.91	14.22
Calcium	10.32	8.28
Magnesium	2.08	1.87
Phosphorus	7.75	6.36
Sodium	1.79	1.68
Potassium	10.26	8.97
Chloride	1.89	1.83
Sulfur	4.58	3.64
Arginine	16.24	14.46
Cysteine	4.70	4.07
Isoleucine	10.60	9.41
Leucine	18.81	17.15
Lysine	16.01	14.57
Methionine	8.19	6.77
Phenylalanine	12.09	11.03
Threonine	10.27	9.96
Valine	11.65	10.54

<sup>1</sup>Diet containing (per kg): 12000 IU vitamin A, 5000 IU vitamin D3, 60 mg vitamin E, 15.0 mg Cu, 54.0 mg Fe, 110.0 mg Mn, 67.0 mg Zn, 2.0 mg I, 0.30 mg Se, 0.37% hydroxyanalog, 1650 U Endo 1,4  $\beta$  xylanase, 275 FTU 6-phytase, 50.0 mg narasin, 50.0 mg nicarbacin.

<sup>2</sup>Diet containing (per kg): 9500 IU vitamin A, 4750 IU vitamin D3, 33 mg vitamin E, 14.2 mg Cu, 19.0 mg Fe, 66.5 mg Mn, 47.5 mg Zn, 1.9 mg I, 0.28 mg Se, 1567 U Endo 1,4  $\beta$  xylanase, 522 FTU 6-phytase, 47.5 mg narasin, 47.5 mg nicarbacin.

<sup>3</sup>AME<sub>n</sub> (MJ/kg)=0.1551×% crude protein+0.3431×% crude fat+0.1669×% starch+0.1301×% sugar.