

**Table S1.** Chemical composition of the commercial and experimental diets consumed by Alentejano pigs slaughtered at ~160 kg LW

	Growing diet A <sup>1</sup>	Growing diet B <sup>2</sup>	Fattening diet <sup>3</sup>	Experimental diet <sup>4</sup>
	(g/100 g)			
Dry matter (DM)	90.7	91.8	90.8	90.5
	(g/100 g DM)			
Total ashes	7.6	7.1	8.1	8.2
Crude protein (N x 6.25)	16.8	16.0	13.8	13.8
Total fiber <sup>5</sup>	17.4	23.6	26.9	40.2
Insoluble fiber <sup>5</sup>	6.1	13.1	15.1	28.0
Neutral detergent fiber (NDF)	24.1	25.3	22.6	29.9
Acid detergent fiber (ADF)	7.3	11.1	9.4	13.2
Acid detergent lignin (ADL)	0.74	1.59	1.64	0.90
Hemicellulose <sup>6</sup>	16.8	14.2	13.2	16.7
Cellulose <sup>7</sup>	5.5	9.1	6.5	10.4
Total sugars <sup>8</sup>	3.5	3.1	3.0	1.88
Total starch <sup>9</sup>	47.0	51.8	45.5	40.1
Total lipids	3.0	4.0	6.8	6.2
Palmitic acid (C16:0)	0.44	0.45	0.66	0.66
Oleic acid (C18:1 <i>n</i> -9)	1.88	3.03	4.42	5.41
Linoleic acid (C18:2 <i>n</i> -6)	1.33	1.01	1.66	1.55
Saturated fatty acids	0.44	0.56	0.88	0.88
Monounsaturated fatty acids	1.88	3.03	4.42	5.41
Polyunsaturated fatty acids	1.33	1.01	1.77	1.66
Σ <i>n</i> -3	0.09	0.10	0.14	0.15
Σ <i>n</i> -6	1.20	0.94	1.46	1.39
	(MJ/kg)			
Digestible energy <sup>10</sup>	13.6	13.2	13.2	13.1

Notes: <sup>1</sup>Fed from 40 to 60 kg LW to all experimental groups; <sup>2</sup>Fed from 60 to 120 kg to all experimental groups; <sup>3</sup>Fed from 120 to 160 kg to C and I group and from 120 to 130 kg to IExp group; <sup>4</sup>Fed from 130 to 160 kg to IExp group; <sup>5</sup>[1] method 991.43; <sup>6</sup>Hemicellulose = NDF-ADF; <sup>7</sup>[2]; <sup>8</sup>[1] method 982.14; <sup>9</sup>[3]; <sup>10</sup>[4].

#### References:

1. AOAC. *Official Methods of Analysis of AOAC International*, 18th ed.; AOAC: Gaithersburg, MD, 2006.
2. ISO-6865. Animal feeding stuffs - Determination of crude fibre content - Method with intermediate filtration. **2000**, ISO 6865, 10.
3. ISO-6493. Animal feeding stuffs - Determination of starch content - Polarimetric method. **2000**, ISO 6493, 10.
4. Noblet, J.; Fortune, H.; Dupire, C.; Dubois, S. Digestible, metabolizable and net energy values of 13 feedstuffs for growing pigs: effect of energy system. *Animal Feed Science and Technology* **1993**, 42, 131 - 149.