

**Table S1.** Analyzed nutrient composition of the experimental diets fed to sows during gestation and lactation.

Item	Unit	Gestation diets			Lactation diets		
		L <sub>ges</sub>	M <sub>ges</sub>	H <sub>ges</sub>	L <sub>lac</sub>	M <sub>lac</sub>	H <sub>lac</sub>
DM	g/kg	889	888	890	888	898	887
Crude ash	g/kg	45.1	49.4	48.2	51.4	60.7	67.0
Crude protein	g/kg	142	154	145	189	195	198
Crude fat	g/kg	27.1	30.3	23.7	29.6	25.8	24.0
Crude fibre	g/kg	87.8	89.4	86.7	61.9	56.8	52.2
Starch	g/kg	282	268	284	388	385	391
ME (pig)	MJ/kg	11.2	11.2	11.1	12.5	12.7	12.6
Calcium	g/kg	6.55	6.95	6.70	7.20	7.30	7.10
Phosphorus (soluble)	g/kg	3.70	4.60	5.55	4.80	6.10	7.20
Ca:P ratio		1.77	1.51	1.21	1.50	1.20	0.99

ges – gestation diet; lac – lactation diet