

## Supplementary Material

### **Physico-chemical properties of the pyrolytic residue obtained by different treatment conditions of meat and bone meal**

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Total numbers of tables: 2

Total numbers of figures: 0

**Table S1.** Hygroscopic moisture and ash content in MBM and T1ABC samples.

Sample	Hygroscopic moisture/%	Ash content/%
MBM	3.20	27.12
T1H005	2.96	57.41
T1H010	3.70	60.00
T1H020	2.90	61.00
T1H050	3.81	64.88
T1H100	2.96	66.64

**Table S2.** Semi-total concentrations of elements in the MBM and T1H005 samples (the mean of triplicates  $\pm$  standard deviation).

Sample	Unit	MBM	T1H005
Cr	mg kg <sup>-1</sup>	0.53 $\pm$ 0.06	1.36 $\pm$ 0.08
Ni	mg kg <sup>-1</sup>	0.35 $\pm$ 0.01	0.90 $\pm$ 0.02
Cu	mg kg <sup>-1</sup>	2.7 $\pm$ 0.1	6.9 $\pm$ 0.1
Zn	mg kg <sup>-1</sup>	58.8 $\pm$ 0.9	151 $\pm$ 1
As	mg kg <sup>-1</sup>	0.09 $\pm$ 0.01	0.19 $\pm$ 0.02
Mo	mg kg <sup>-1</sup>	0.31 $\pm$ 0.01	0.70 $\pm$ 0.05
Cd	mg kg <sup>-1</sup>	0.020 $\pm$ 0.002	0.035 $\pm$ 0.007
Pb	mg kg <sup>-1</sup>	1.16 $\pm$ 0.04	2.97 $\pm$ 0.06
Fe	mg kg <sup>-1</sup>	289 $\pm$ 10	799 $\pm$ 2
Ca	g kg <sup>-1</sup>	78.3 $\pm$ 4	161 $\pm$ 1
Mg	g kg <sup>-1</sup>	1.14 $\pm$ 0.04	2.8 $\pm$ 0.5
Na	g kg <sup>-1</sup>	12.4 $\pm$ 0.3	28.6 $\pm$ 0.6
K	g kg <sup>-1</sup>	6.0 $\pm$ 0.2	12.5 $\pm$ 0.5
P	g kg <sup>-1</sup>	21.5 $\pm$ 0.9	48.4 $\pm$ 0.6