

Supplementary Materials

Table S1. Properties of poultry litter used for biochar production. Values are means \pm standard deviation (n=3).

Properties	Value	
Moisture (%)	30.2 ± 0.67	
pH-H ₂ O	8.49 ± 0.02	
EC (mS cm ⁻¹) ¹	6.74 ± 0.11	
Bulk density (g cm ⁻³)	0.42 ± 0.01	
WHC (g g ⁻¹)	1.95 ± 0.02	
Hydrophobicity class	Slightly hydrophobic	
C (%) ²	46.3 ± 0.6	
N (%)	3.54 ± 0.08	
C:N ratio	13.09 ± 0.28	
NO ₃ -N (mg kg ⁻¹)	5.44 ± 0.09	
NH ₄ -N (g kg ⁻¹)	2.630 ± 0.033	
SRP (g kg ⁻¹)	0.929 ± 0.035	
Elemental composition	Total (mg kg ⁻¹)	Water soluble (mg kg ⁻¹)
Al	587 ± 67	42.18 ± 1.1
As	1.3 ± 0.28	0.55 ± 0.01
Ca	21500 ± 350	467.62 ± 13.54
Cd	0.30 ± 0.00	BDL
Co	0.93 ± 0.06	0.37 ± 0.01
Cr	5.42 ± 0.4	0.78 ± 0.03
Cu	637 ± 49	262.2 ± 17.62
Fe	163 ± 63	118.55 ± 5.46
K	32983 ± 1484	22064 ± 525
Mg	6617 ± 252	323.82 ± 12.59
Mn	442 ± 22	11.72 ± 0.31
Mo	3.65 ± 0.48	1.57 ± 0.06
Na	6867 ± 451	4585 ± 50
Ni	8.83 ± 0.35	6.17 ± 0.11
P	16317 ± 681	1290 ± 9
Pb	0.73 ± 0.19	BDL
S	5483 ± 153	3252 ± 110
Se	1.75 ± 0.23	0.42 ± 0.02
Ti	0.38 ± 0.19	0.62 ± 0.06
Zn	680 ± 40	66 ± 1.14

¹ EC, electrical conductivity; WHC, water holding capacity at -33KPa; NO₃-N, nitrate nitrogen; NH₄-N, ammonium nitrogen; SRP, soluble reactive phosphorus; BDL, below detection limit.

² All concentrations of all nutrients and elements are on dry-weight basis.