

Table S1. Basic physical and chemical properties of three biochar types

Biochar types	YM	LW	YK
pH	9.5	9.5	9.7
C (%)	42.08	58.34	94.80
Ash (%)	8.43	7.50	4.60
Pyrolysis Temperature (°C)	500	500	700
Specific Surface Area(m ² /g)	68	41	1150

Note: YM (corn stover biochar), LW(reed biochar), YK (coconut shell biochar)