

Table S1: Properties of Pontgibaud technosol, biochar and compost used in the experiment.

	Properties	Value	Reference
Pontgibaud technosol	pH	4.80 - 4.99	29 - 31
	EC ($\mu\text{S.cm}^{-1}$)	262 - 599	
	[As] (mg.L^{-1})	0.01 - 0.022	
	[Pb] (mg.L^{-1})	12.307 - 56.97	
	Organic matter content (%)	1.42	
	Total nitrogen (mg.kg^{-1})	75	
	Cation exchange capacity (% CaCO ₃)	0.7	
Biochar	Particle size (mm)	0.5–1	32
	pH	8.46	
	EC ($\mu\text{S.cm}^{-1}$)	302	
	WHC (%)	212	
	Specific area ($\text{m}^2.\text{g}^{-1}$)	4.38	
	Total pore volume ($\text{cm}^3.\text{g}^{-1}$)	0.01	
	Mean pore diameter (nm)	9.13	
Compost	Particle size (mm)	0-5	Klasmann- Deilmann, Saint-Louis- du-Rhône: France
	pH	6	
	EC (mS.cm^{-1})	35	
	Water retention capacity	80%	