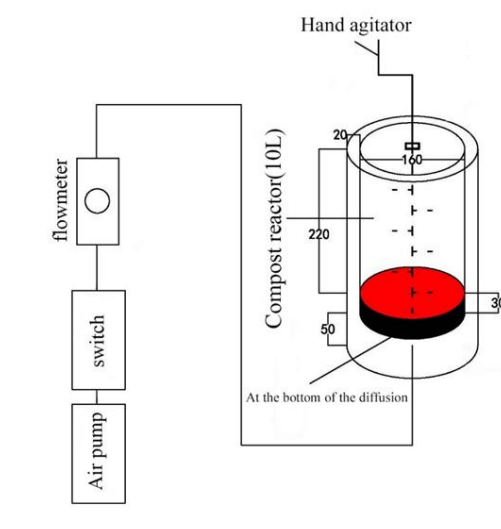


## Supplementary Material

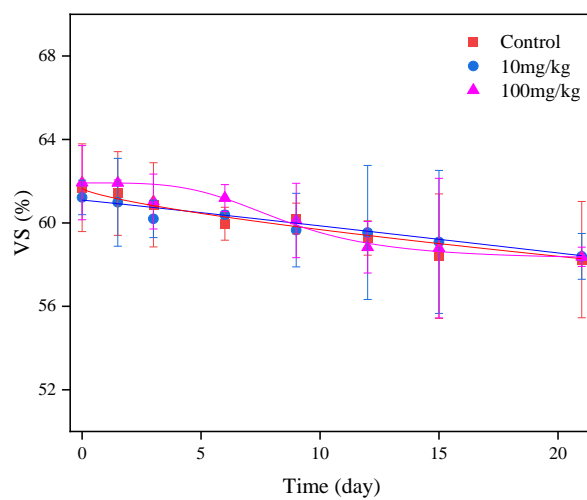
**Table S1.** Physicochemical properties of initial composting materials.

Parameters	Human feces	Rice bran
Moisture content (%)	92.45	10.42
VS (%)	65.45	85.52
pH	6.97	7.74
Electrical conductivity (ms/cm)	13.67	-
SCOD (g/kg)	127.14	-
TP (g/kg)	2.50	-
NH <sub>4</sub> <sup>+</sup> -N (g/kg)	78.86	-
K (g/kg)	6.21	-
Fe (g/kg)	8.07	-
As (g/kg)	$2.18 \times 10^{-2}$	-
Sn (g/kg)	$4.97 \times 10^{-2}$	-
Cu (g/kg)	ND <sup>a</sup>	-
Cr (g/kg)	ND	-
Cd (g/kg)	ND	-

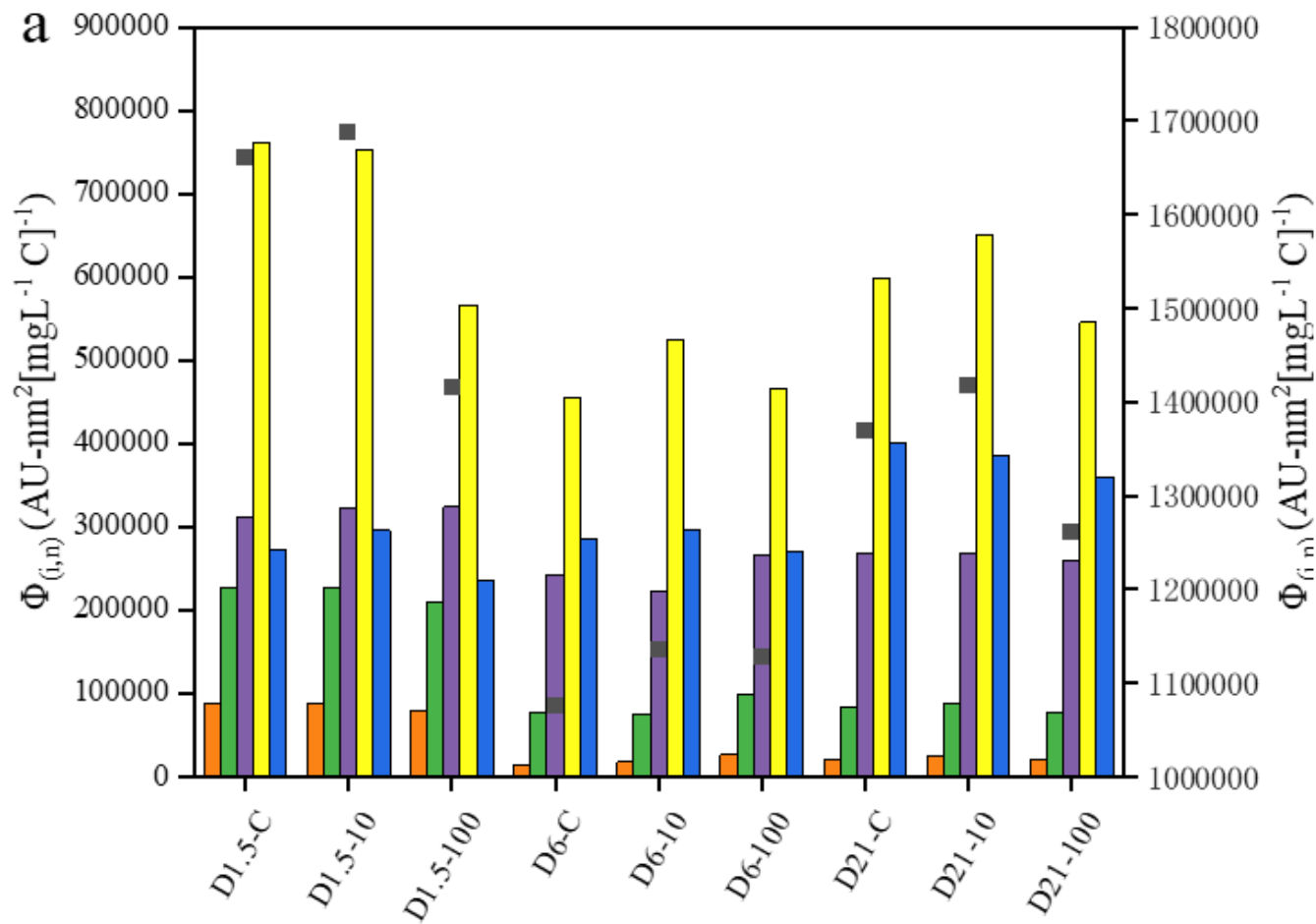
<sup>a</sup>, ND, not detectable

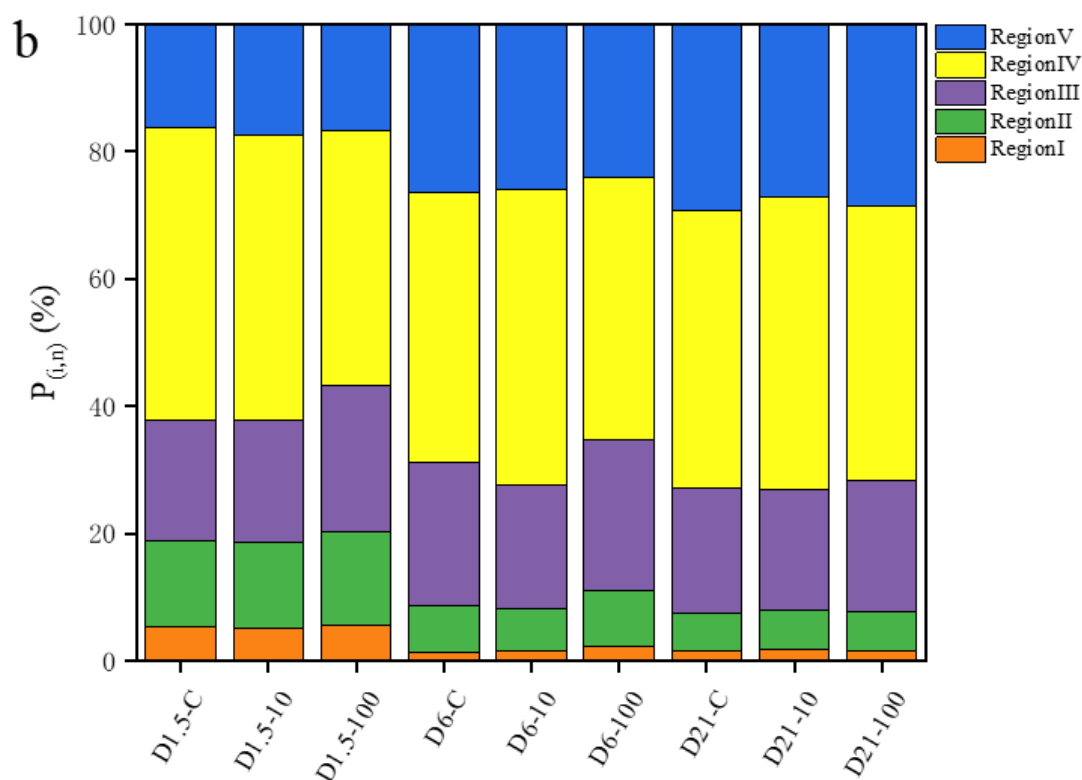


**Figure S1.** Schematic diagram of an aerobic composting reactor.

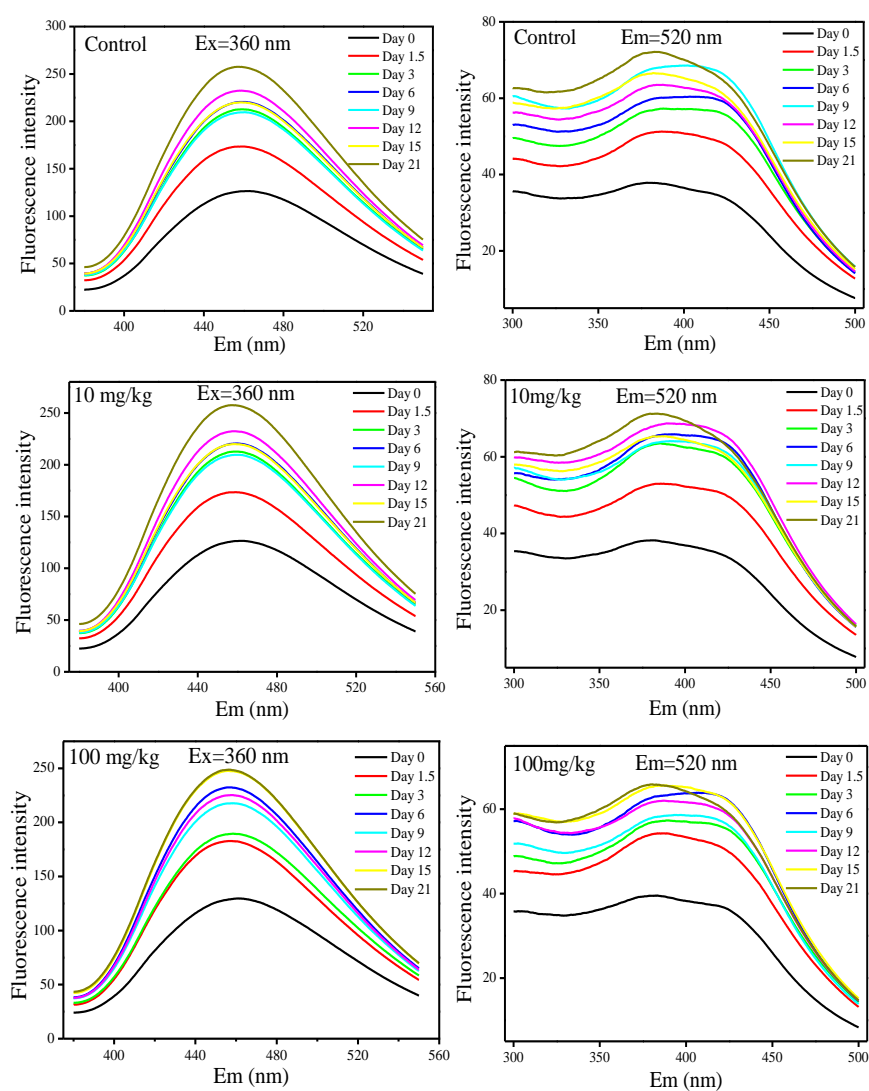


**Figure S2.** VS changes in the control, 10-mg/kg and 100-mg/kg groups during human feces composting.

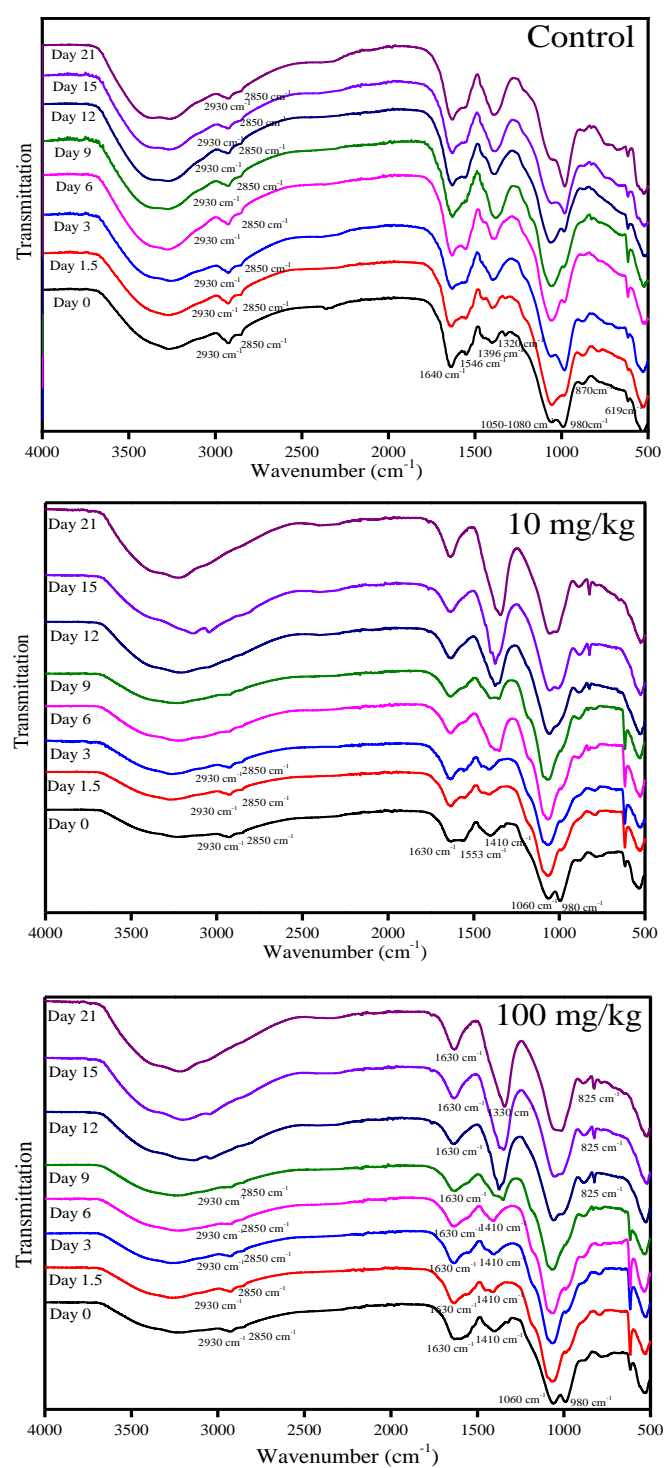




**Figure S3.** Normalized excitation-emission area volumes (a) and percent fluorescence response (b) of DOMs isolated from the composts. D 1.5-C, D 1.5-10 and D 1.5-100, the samples from the control, 10-mg/kg and 100-mg/kg groups on day 1.5, respectively; D 6-C, D 6-10 and D 6-100, the samples from the control, 10-mg/kg and 100-mg/kg groups on day 6, respectively; D 21-C, D 21-10 and D 21-100, the samples from the control, 10-mg/kg and 100-mg/kg groups on day 21, respectively

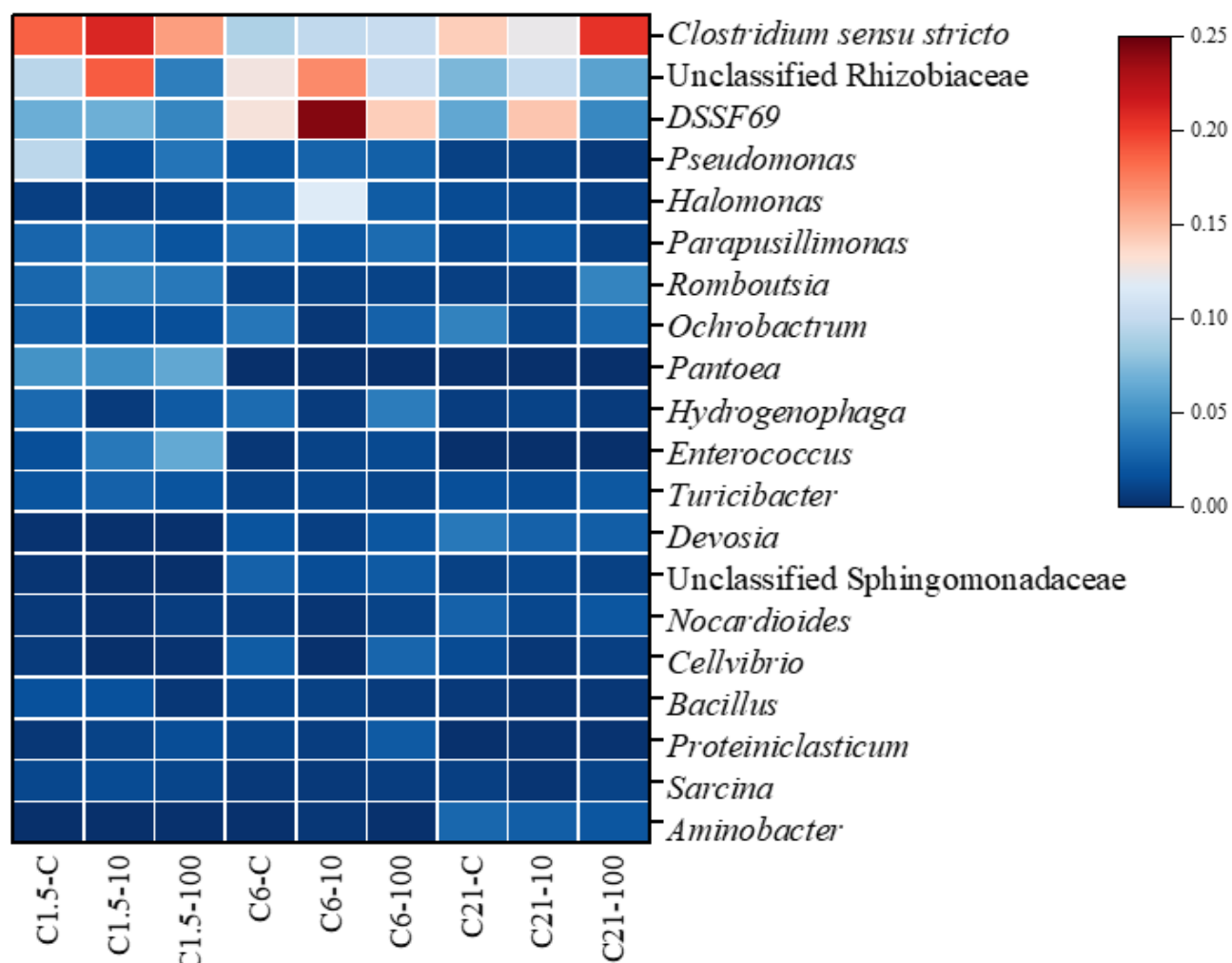


**Figure S4.** Emission (left) and Excitation (right) spectra of DOMs extracted from human feces aerobic composts.



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**Figure S5.** Changes in the FTIR spectra of DOMs during human feces aerobic composting.



**Figure S6.** Heat map of top 20 abundant bacteria at the genus level in the composting samples. D 1.5-C, D 1.5-10 and D 1.5-100, the samples from control, 10-mg/kg and 100-mg/kg groups at day 1.5, respectively; D 6-C, D 6-10 and D 6-100, the samples from control, 10-mg/kg and 100-mg/kg groups at day 6, respectively; D 21-C, D 21-10 and D 21-100, the samples from control, 10-mg/kg and 100-mg/kg groups at day 21, respectively