

Table 1

Mean characteristics of manure, solid and liquid fractions

	Manure	SF	LF
TS (%)	9.0 ± 0.7	25.8 ± 0.3	5.6 ± 0.3
VS (%)	7.2 ± 0.6	23.3 ± 0.4	4.0 ± 0.4
VS/TS	0.80 ± 0.02	0.90 ± 0.02	0.71 ± 0.02
TKN-N (g kg ⁻¹)	3.0 ± 0.3	4.7 ± 0.4	2.7 ± 0.2
Mass distribution (%)	100	16.8 ± 0.2	83.2 ± 0.2

Table 2

Details of the five experimental assays carried out

Experiment	Substrate (SF) (kg)	TS _{SF} (%)	VS _{SF} (%)	Inoculum (L)	BA _{Inoculum} (g CaCO ₃ L ⁻¹)	Percolate Recirculation (L d ⁻¹) ^b	Recirculation Strategy ^b
E1	40	26.3	23.2	60 – F ^a	20.5	10	10 L x 1 time per day
E2	40	25.7	23.4	30 – R ^a	17.5	10	10 L x 1 time per day
E3	40	25.8	23.4	40 – R ^a	11.5	30	10 L x 3 times per day
E4	40	25.7	23.3	40 – R ^a	11.1	20	2 L x 10 times per day
E5	40	25.4	22.8	24 – F ^a	19.8	30	2 L x 15 times per day

^a F: Fresh, R: Re-used^b Percolate recirculation started after 24 hours from the start of the process