Supporting information



Fig. S1. Permutational multivariate dispersion (PERMDISP) test of bacterial community composition of concentrated vinasse (C) and non-concentrated vinasse (N)



Fig. S2. Alpha-diversity index (Simpson) of concentrated vinasse (CV) and non-concentrated vinasse (NCV).

Table S1. Chemical characteristics of the concentrated vinasse (CV) and non-cocncentrated (NCV).

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | pH | C orgb | N tot c | NH4+-N d | NO3-N e | P | K | C/N |
|  |  | g L-1 | g L-1 | mg L-1 | m g L-1 | g kg-1 | g kg-1 |  |
| CV | 4.8 | 28.8 | 0.51 | 45.7 | 8.8 | 0.11 | 3.5 | 57/1 |
| NCV | 3.9 | 31.4 | 0.89 | 41.6 | 4.1 | 0.23 | 4.7 | 35/1 |

b C org: Total organic carbon;

c N tot:Total organic nitrogen;

dNH4+-N: ammonium;

e NO3--N: nitrate.

Table S2. Primers and PCR conditions of each gene.

|  |  |  |
| --- | --- | --- |
| Gene | Primer  | Reference |
| *narG* | narG1960m2F | Bru et al., 2007  |
|   | narG2050m2R |   |
| *nirK* | nirK 1F | Braker et al., 1998 |
|   | nirK 5R |   |
| *nirS* | nirScd3af | Throback et al., 2004 |
|   | nirSR3cd |   |
| nosZ | nosZ2F | Henry et al., 2006 |
|   | nosZ2R |   |
| *amoA* | AmoA-1F | Rotthauwe et al., 1997 |
|   | AmoA-2R-TC |   |
| *nifH* | PolF | Poly et al. (2001) |
|  | PolR |  |