Supplementary material

Manuscript title “Effect of antibiotics and thermophilic pretreatment on anaerobic co-digestion of pig manure and corn straw”

Figure S1 Schematic description of mixing and anaerobic Co-digestion on CSTR used for anaerobic co-digestion of pig manure and corn straw in reactor-1 with untreated feeding.

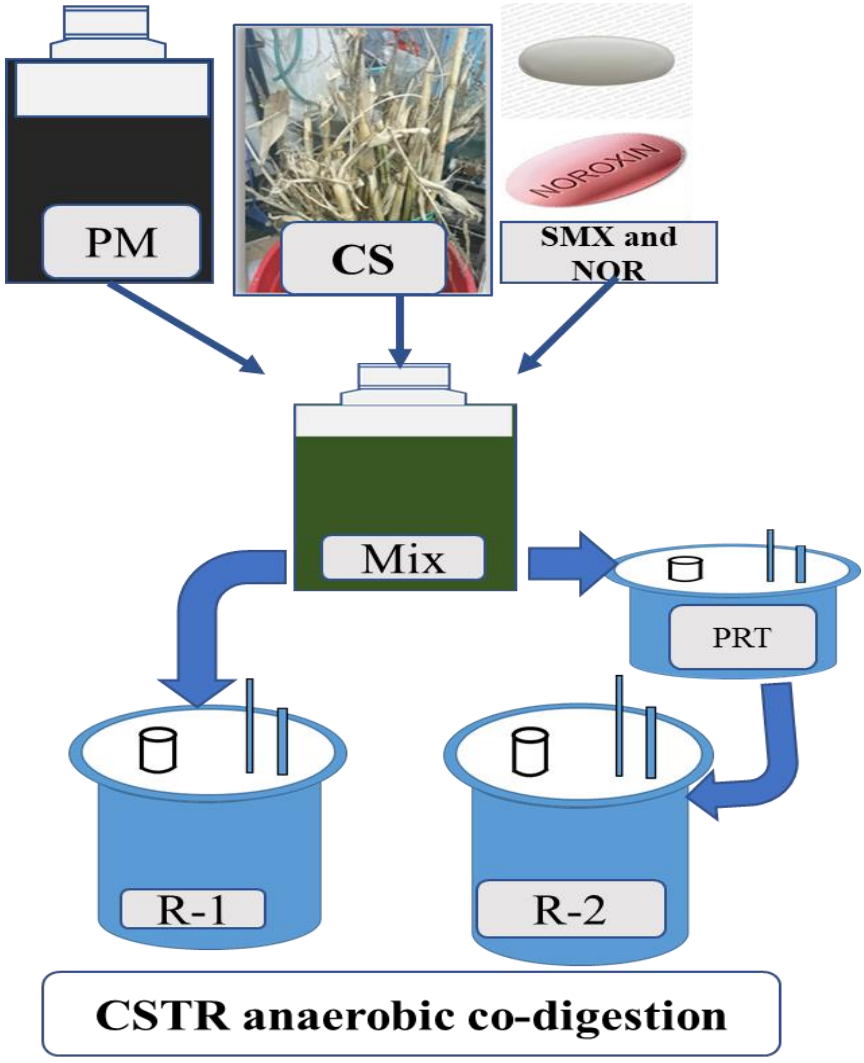
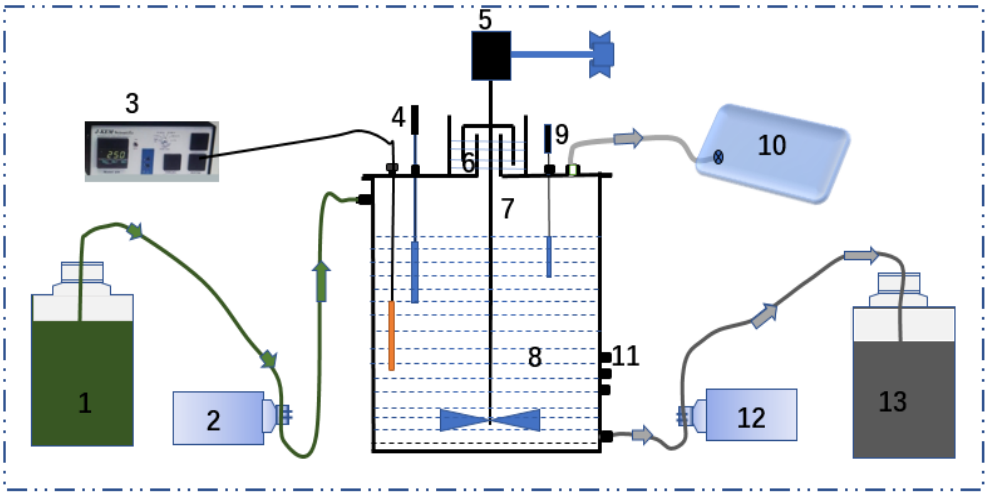
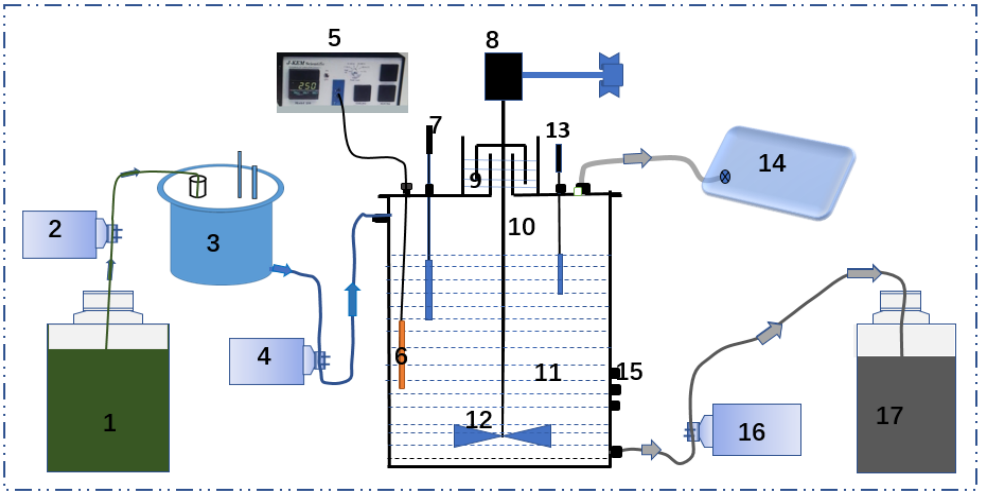


Figure S2 Schematic description of CSTR used for anaerobic co-digestion of pig manure and corn straw in reactor-1 with untreated feeding.



[1] Influent storage tank
[2] Inlet pump
[3] Temperature controller
[4] ORP probe
[5] Mixing motor
[6] Gas controlling water
[7] Biogas volume
[8] Digestate volume
[9] pH probe
[10] Biogas bag
[11] Sampling points
[12] Outlet pump
[13] Effluent storage tank

Figure S3 Schematic description of CSTR used for anaerobic co-digestion of pig manure and corn straw in reactor-2 with thermophilic pretreatment feeding.



① Influent storage tank
② Pretreatment Inlet pump
③ Thermo-pretreatment reactor
④ Influent pump
⑤ Temperature controller
⑥ Temperature sensor
⑦ ORP probe
⑧ Mixing motor
⑨ Gas controlling water
⑩ Biogas volume
⑪ Digestate volume
⑫ Stirrer
⑬ pH probe
⑭ Biogas bag
⑮ Sampling points
⑯ effluent pump
⑰ Effluent storage tank

Figure S4 Experimental results between each stage and R-1and R-2

