**Supporting Information**

**Calcium peroxide promoted anaerobic co-digestion of plant waste and excess sludge to produce methane**

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Fig. S1The change of pH in the co-digestion of PW and ES system in the presence of CP. Error bars represent standard deviations of triplicate tests.



Fig.S2 Effect of CP on VFA components produced from anaerobic co-digestion of PW and ES. Error bars represent standard deviations of triplicate tests.

Table S1 Variance analysis of methane production compared with R1.

|  |  |  |  |
| --- | --- | --- | --- |
|  | F | P-value | F crit |
| R2 | 2283 | 9.37 E-15 | 3.47 |
| R3 | 6231 | 1.49 E-7 | 7.71 |
| R4 | 5850 | 1.75 E-7 | 7.73 |