

Table S2 ANOVA of effects of residence time (RT) and anaerobic/aerobic sampling method on CH <sub>4</sub> content.					
Factor information					
Factor	Type	Levels	Values		
RT (days)	Fixed	4	3.3, 5.0, 10.0, 20.0		
Sampling method	Fixed	2	Aerobic, Anaerobic		
Analysis of variance					
Source	DF	Adj SS	Adj MS	F-Value	P-Value
RT (days)	3	0.018570	0.006190	65.35	<0.001
Sampling method	1	0.000847	0.000847	8.94	0.004
RT*Sampling method	3	0.000820	0.000273	2.89	0.041
Error	82	0.007767	0.000095		
Total	89	0.029394			

A two-way ANOVA was conducted with Minitab 17 Statistical Software (State College, PA: Minitab, Inc. ([www.minitab.com](http://www.minitab.com))) on a sample of 90 data points to investigate the effect of residence time (RT) and sampling method on CH<sub>4</sub> content of biogas. Analysis showed that both RT and sampling method had significant ( $p < 0.001$ ,  $p = 0.004$ ) effect on CH<sub>4</sub> content. The interaction between the effects of RT and sampling method on CH<sub>4</sub> content was also significant ( $p = 0.041$ ).