Pretreatment (In published paper)

Waste activated sludge

- Anaerobically stirred at constant pH 10 for 8 d

- Adjusting the pH of mixture to 7.0

- Stirred for 9 d after anaerobic granular sludge seeded

- Sampling at day 30 since semi-continuous culture (P30)

Methane generation

- Anaerobically stirred for 8 d for control

- Adjusting the pH of mixture to 7.0

- Stirred for 9 d after anaerobic granular sludge seeded

- Sampling at day 30 and 40 since semi-continuous culture (UP30; UP40)

Sample collection