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Characteristics of acidogenic fermentation for volatile fatty acid production from food waste at high concentrations of NaCl

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ABSTRACT

This study explored the effects of NaCl on volatile fatty acid (VFA) production from food waste by acidogenic fermentation. The production and composition of VFAs, and the microbial community in acidogenic fermentation were investigated at four different NaCl concentrations: 10, 30, 50, and 70 g/L, and at 0 g/L (control). The highest VFA production was 0.542 g/g dry weight of food waste at 10 g/L NaCl, and about 23% lower but still

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