

ABSTRACT**PRODUCTION PROCESS FOR PRODUCING BIOGAS BY MEANS OF ANAEROBIC
CO-DIGESTION**

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The invention relates to a production process for producing biogas by means of anaerobic co-digestion which comprises: (a) preparing hydrolyzed biomass from organic solid waste by means of a thermal hydrolysis treatment of waste at between 1.5 and 4.5 bar and between 120 and 160 °C, generating raw biomass from which
10 foreign matter is separated, giving rise to clean hydrolyzed biomass with at least 90 % organic matter, a volatile solids to total solids ratio of at least 0.6 and at least 5 % total solids; (b) mixing the clean hydrolyzed biomass with sludge from a wastewater treatment plant (WWTP), generating a mixture with a concentration of solids of less than 30 % which is conditioned to a concentration of less than 20 %; and (c) a step of
15 wet anaerobic digestion in a digester at between 25 °C and 40 °C or between 50 °C and 60 °C and during an HRT of between 12 and 30 days, generating biogas and a digestate.

[Figure 1]

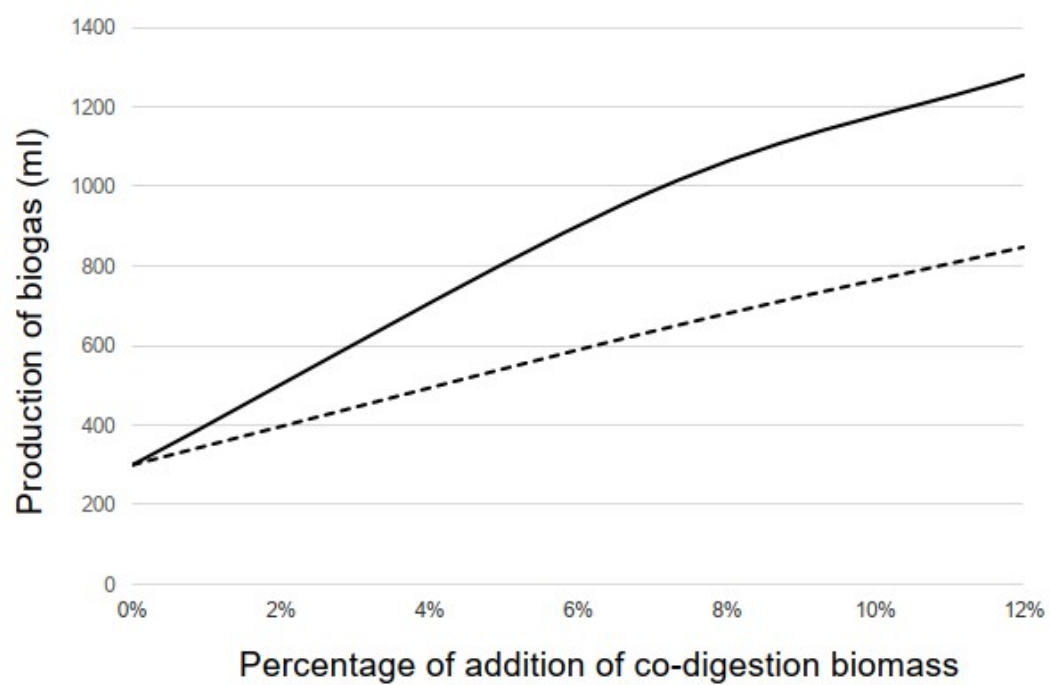


FIG. 1