

Anaerobic digestion of brewers spent grains

University of Birmingham - [PDF] Anaerobic digestion of brewery spent grain in a semi



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The biotransformation of brewer's spent grain into biogas by anaerobic microbial communities

The current study evaluates and compares the stability of anaerobic digestion of Brewery Spent Grains BSG with and without addition of nutrients. The observed tendency might indicate the process inhibition caused by significant VFA concentration in the BSG.

Anaerobic digestion of Brewery Spent Grains: Trace elements addition requirement

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Anaerobic digestion of Brewery Spent Grains: Trace elements addition requirement

The results obtained demonstrate a potential for complete BSG utilization via biogas production and application as a soil additive.

Evaluation of anaerobic co

Biofuels Bioprod Biorefin 2 5 :455—469. In effect, we clean those out and then make methane gas.

Anaerobic digestion of brewery spent grain in a semi

Curr Opin Biotechnol 22 3 :51—57.

The effect of brewery spent grain application on biogas yields and kinetics in co

Microbiol Mol Biol Rev 66 3 :506—577.

The biotransformation of brewer's spent grain into biogas by anaerobic microbial communities

For both, the analogous parameters were determined: COD, TS, VS, VFA, alkalinity, and pH. As compared to the semi-continuous mode, the batch one incurs lower financial costs in relation to the construction of devices.

Waste options for breweries, cideries and distilleries

It is commonly supplied to local farms where it is used as animal feed resulting in a small profit for the companies. The present study examines the effect of introducing the dried BSG on the biogas yields and kinetics in co-digestion with SS using semi-continuous anaerobic digesters. Analyses of the substrates showed no phenolic compounds either in raw-untreated BSG or pretreated substrates, therefore the recorded p-cresol is an intermediate degradation product, responsible for process inhibition.

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