

**ON PROCESS TOFU WASTEWATER TREATMENT USING  
ANAEROBIC BAFFLED REACTOR (ABR)**

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Tofu wastewater contains high level of organic matter. The organic matter content very potential to produce biogas. This research aimed to determine biogas production rate using Anaerobic Baffled Reactor (ABR) with the batch method with and without circulation.

The result showed that the average of biogas production rate with the batch method without circulation is  $1,7 \cdot 10^{-5}$  lt / s, while average of biogas production rate for the batch method with circulation is  $2 \cdot 10^{-5}$  lt/s. The methane gas production using ABR of batch method without circulation is 8,52 lt/Kg COD, while batch method with circulation is 14,375 lt /Kg COD. Calorie Estimation yielded using batch method ABR without circulation is 7,06 kcal/day, while batch method with circulation is 8,30 kcal/day

Key words : *Anaerobic Baffled Reactor (ABR), Chemical Oxygen Demand (COD), Biogas, Methane*

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