DESIGN OF ANAEROBIC BIOREACTOR ACCESSED BY INTERNET

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Abstract
Simulator of bioreactor dan simulate cattle dung to return the biogas. Most of the simulators are permanent tube, so that it cannot be removed easily and if there is someone who wants to learn it, he/she has to come to where the simulator is. in this study has been made simulator bioreactor that can be accessed throughout the world, where the coefficient of its accelerated growth of microorganisms (u2 and uc) associated with the function of the ambient temperature. By changing the temperature function on the client, the server can respond to changes and generate the parameters (pH, CH4, CO2, u2) to follow changes in temperature. Bioreactor conditions were normal at 27 °C - 44 °C, but large subsrat S2 (A) that can be extracted decreases associated with the rising value of the input temperatures, other than that there are actual test data transfer bandwidth (throughput) of 2.821byte / s when accessed by a third client simulation, testing route data transfer before data access services to the client, as well as loss probability test (p) which is limited to four clients are running the simulation, the p value associated with the growing number of clients who access the research website. with It is expected the formation of a learning tool (e-learning) remotely related to the process of anaerobic bioreactor.

Keyword : simulator of anaerobic bioreaktor , web server vi, web service vi, e-learning, intranet,internet