

Produksi Biogas Limbah Cair Tapioka Menggunakan Starter Rumen Sapi
(*Production of Tapioca Liquid Wastewater Biogas Using Starter Rumen Cow*)

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ABSTRACT

This study aims to determine the effect of cow rumen starter on biogas yield and to know the rate of biogas formation and to know the flame of biogas of tapioca liquid waste. Measurement of biogas volume using legal archimedes and using descriptive statistical data analysis. Based on result of research of biogas production of tapioca liquid waste using cassava starter starter the biggest volume that is in addition of starter 10% is 5850 ml and addition of starter 15% is 4950 ml while addition of starter 5% is 4680 ml and at control is 4080 ml. the addition of cow rumen starter can increase biogas production rate, it is known from starter treatment 5%, 10% and 15% able to produce biogas maximally for 1 x 24 hours and then decrease. While the biogas rate of the new control treatment produces biogas on day 4 and subsequently gas production has increased. Result of test of flame of tapioca liquid waste using cow rumen starter indicate that biogas contain methane gas, this matter marked with result of biogas that can be burned

Keywords: *Tapioca Liquid Waste, Biogas, Rumen Cow.*