THE EFFECTIVENESS OF ADDING SEVEN ENZYME COMBINATIONS AGAINST BODY WEIGHT GAIN ESTIMATION OF SIMENTAL CROSS CATTLE

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ABSTRACT

The aims of this research is to know about the effectiveness of adding seven enzyme combinations (protease, lipase, amylase, glucanase, xylanase, cellulase, pectinase) against estimation of beef cattle body weight gain by measuring body length and chest girth using Lambourne method. This research is conducted in Sendang Agung village, district Paciran of Lamongan Regency on April to June 2013. Twenty Simmental Cross Cattle are used in this research. The research design is completely randomized design using four treatments and five replications. All treatment are grouped into P0 (control), P1 (dose 35 ml), P2 (dose 70 ml) and P3 (dose 140 ml). Analysis of Varian (ANAVA) One Way is used to analyze the data. If significance difference is found of the treatments then honestly significant difference test (tukey test) is conducted. The result showed that addition of seven enzyme combinations effects the body weight gain estimation of Simmental Cross Cattle, with treatment dose 140 ml per day provides estimates of the highest body weight gain.

Key words: Enzyme combination, body weight, Simmental Cross Cattle.