ABSTRACT

THE ADDITION OF FERMENTED COW’S URINE AS THE NUTRIENT SOURCE OF Daphnia sp CULTURE.

By
GLYCINE ASTIKA

Cow’s urine is organic waste which can be pollution of environment and the usage hasn’t known yet. The fermentation is a technique which is used to increase the nutrient substance in cow’s urine. The purpose of this study was to know effect of the addition cow’s urine as the nutrient source in culture of Daphnia sp. The method used is a Complete Randomized Design (CRD) with five treatments and three replicates. The treatments are adding fermented cow’s urine as much as 1.5; 2.5; 3.5; 5 ml/l and 1 gr/l of milk powder as the control. The result of the research showed that in the addition of 2.5 ml/l fermented cow’s urine with 50 ind./l gave a significantly different effect (α : 0.05) with 1.747 ind./l population abundance in the 9th day. The water quality during the farming in DO 3.3-4.6 ppm; with 27°C temperature; 7-8 pH dan 0.02-1.42 ppm ammonia.

Key words: Culture, Daphnia sp., Fermentation Cow’s Urine, and Nutrien