

THE UTILIZATION OF MUSHROOM WASTE SUBSTRATE IN PRODUCING VERMICOMPOST: THE DECOMPOSER CAPACITY OF LUMBRICUS RUBELLUS, EISENIA FETIDA AND EUDRILUS EUGENIAE

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Title	THE UTILIZATION OF MUSHROOM WASTE SUBSTRATE IN PRODUCING VERMICOMPOST: THE DECOMPOSER CAPACITY OF LUMBRICUS RUBELLUS, EISENIA FETIDA AND EUDRILUS EUGENIAE
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Abstract	The objective of this study was to determine the capacity of Lumbricus rubellus, Eisenia fetida and Eudrilus eugeniae earthworms in vermicompost production utilizing mushroom waste substrate based on weight; number and weight loss of earthworms; temperature; pH; moisture content of media; and C/N ratio. The results showed that, by using 42 g of E. eugeniae, E. fetida and L. rubellus earthworms, there was an increase in weight of earthworms and vermicompost by more than 300% and 75%, respectively. In general, these three species of earthworms were able to produce vermicompost in compliance with quality standards, showing C/N ratio lower than 20.
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