# RINGKASAN

JEFFORY YUWONO. 2022410038 Kandungan Nutrisi Maggot *Hermetia illucens* Yang Dibudidaya Pada Media Dedak Padi Dengan Penambahan Produk Turunan Ragi Roti. Pembimbing Utama : Eka Fitasari Pembimbing Pendamping : Rosyida Fajri Rinanti.

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Penelitian ini dilaksanakan untuk mengkaji pengaruh dari penambahan produk turunan ragi roti (Saccharomyces cerevisiae) pada media budidaya berupa dedak padi terhadap kandungan nutrisi maggot Hermetia illucens (BSF). Penelitian dilaksanakan dengan menggunakan rancangan acak lengkap (RAL) dengan enam perlakuan suplementasi produk turunan ragi roti sebesar 0, 1, 2, 3, 4 dan 5% (b/b) dan empat ulangan. Hasil penelitian menunjukkan bahwa penambahan produk turunan ragi roti secara linier meningkatkan kadar protein kasar ($P < 0,01$) pada maggot BSF. Akan tetapi kandungan lemak kasar maggot BSF menurun secara signifikan ($P < 0,01$) dengan suplementasi produk turunan ragi roti. Perlakuan pada penelitian ini tidak memberikan pengaruh yang signifikan terhadap bahan kering dan kandungan air maggot BSF. Berdasarkan hasil penelitian ini menandakan bahwa kandungan nutrisi dari media budidaya, khususnya kadar protein, mempengaruhi metabolisme maggot BSF. Peningkatan kadar protein mendorong pembentukan protein tubuh dan mengurangi akumulasi lemak.

Kata Kunci: Dedak padi, Hermetia illucens, Lemak kasar, Protein kasar, Saccharomyces cerevisiae.

## SUMMARY

JEFFORY YUWONO. 2022410038 Nutritional Content of Maggots *Hermetia illucens* Cultivated on Rice Bran Media with the Addition of Baker's Yeast Derivatives Product. Primary Supervisor : Eka Fitasari Co-Supervisor : Rosyida Fajri Rinanti.

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This study was conducted to assess the effect of adding baker's yeast derivative product (Saccharomyces cerevisiae) to rice bran as the cultivation medium on the nutritional content of Hermetia illucens (BSF) maggots. The study was arranged using a completely randomized design (CRD) with six treatments (supplementation of baker's yeast derivative products of 0, 1, 2, 3, 4 and 5% (w/w)) and four replications. The results showed that the addition of baker's yeast derivative products linearly increased the crude protein content ($P < 0.01$) in BSF maggots. However, the crude fat content of BSF maggots decreased significantly ($P < 0.01$) with supplementation of baker's yeast derivative products. The treatments in this study did not have a significant effect on the dry matter and water content of BSF maggots. Based on the results of this study, it indicates that the nutritional content of the cultivation medium, especially protein content, affects the metabolism of BSF maggots. Increasing protein concentration promotes the formation of body proteins and reduces fat accumulation.



Keywords: Crude Fat, Crude Protein, Hermetia illucens, Rice bran, Saccharomyces cerevisiae.