ANALISIS EKONOMI TEPUNG MAGGOT *BLACK SOLDIER FLY (Hermetia illucens)* DENGAN BERBAGAI TEKNIK PENGOLAHAN DALAM RANSUM BROILER

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RINGKASAN

Protein adalah komponen pakan paling mahal dibandingkan dengan yang lainnya, akibatnya secara ekonomi cukup membebani biaya produksi. Bahan pakan yang tersedia dan belum sepenuhnya dimanfaatkan dalam bahan pakan yaitu Maggot dari lalat *Black Soldier Fly (Hermetia illucens)* dapat dijadikan bahan pakan sumber protein. Penelitian telah dilaksanakan di kandang Ayam Pedaging Politeknik Negeri Lampung. Penelitian bertujuan menganalisis ekonomi tepung maggot *black soldier fly (Hermetia illucens)* dengan berbagai teknik pengolahan dalam ransum broiler. Penelitian ini terdapat empat perlakuan, P1 = Penjemuran dengan sinar matahari selama 2 hari + penggilingan, P2 = Pengovenan dengan suhu 50 ^{o}C selama 7 jam + penggilingan, P3 = Penyangraian dengan suhu 100 ^{o} C selama 15 menit $_{+}$ penggilingan, dan P4 = Perendaman air panas (*scalding*) dengan suhu 96 ^{o}C selama 5 menit + penggilingan. Hasil penelitian teknik pengolahan tepung maggot *black soldier fly (Hermetia illucens)* secara perendaman air panas (*scalding*) dengan suhu 96 ^{o}C selama 5 menit dan penggilingan (P4) mampu menekan biaya produksi dan memiliki nilai ekonomi dengan hasil analisis BEP Harga Rp 25.645,35, BEP Produk 21,38 kg, IOFC Rp 734.032,90, nilai R/C 1,44 serta nilai B/C 0,44.

Kata kunci : analisis ekonomi, maggot *black soldier fly (Hermetia illucens)*, teknik pengolahan

ECONOMIC ANALYSIS OF MAGGOT BLACK SOLDIER FLY (*Hermetia illucens*) FLOUR WITH VARIOUS PROCESSING TECHNIQUES IN BROILER RATIONS

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ABSTRACT

Protein is the most expensive component of feed compared to others, resulting in economically burdensome production costs. The available feed ingredients that have not been fully utilized in feed ingredients, namely Maggot from the Black Soldier Fly (Hermetia illucens) can be used as protein source feed ingredients. This research was conducted in the broiler cage at Lampung State Polytechnic. This study aims to analyze the economics of maggot black soldier fly (Hermetia illucens) flour with various processing techniques in broiler rations. In this study there were four treatments, P1 = drying in the sun for 2 days + grinding, P2 = oven at 50 oC for 7 hours + grinding, P3 = roasting at 100 oC for 15 minutes + grinding, and P4 = hot water sprinkling (scalding) at 96 oC for 1 minute + grinding. As a result of processing techniques can provide a comparison of price differences in each treatments and can reduce low production costs. The results of the research on the processing technique of black soldier fly maggot flour (Hermetia illucens) by hot water sprinkling (scalding) with a temperature of 96 oC for 1 minute and milling (P4) is able to reduce production costs and has economic value of the analysis of BEP Price Rp. 25,645.35, BEP Product 21.38 kg, IOFC Rp. 734.032.90, R/C value 1.44 and B/C value 0.44.

Keywords : analysis economic, maggot black soldier fly (Hermetia illucens), processing techniques