

ABSTRAK

Abdullah Malik Sihombing, NIM 4193220021 (2019), Analisis Kandungan Nutrisi Pelet Ikan Dari Sumber Protein Maggot (*Hermetia illucens* L.).

Penelitian ini bertujuan untuk mengetahui persentase kandungan nutrisi pada pelet ikan, yaitu protein, lemak, karbohidrat, kadar air dan kadar abu yang sumber proteinnya dari maggot (*Hermetia illucens*) dan penentuan pelet ikan yang optimal. Penelitian ini dilaksanakan pada 15 Juli sampai 14 November 2023 di Meta Maggot BSF Farm, Jl Veteran Psr 9, Kel Manunggal, Kec. Labuan Deli, Kab. Deli Serdang, Sumatera Utara. Penelitian ini merupakan penelitian eksperimen dengan metode deskriptif kuantitatif, yakni dengan menggunakan lima perlakuan, yaitu perlakuan A dengan substitusi maggot (5%), B (10%), C (15%), D (20%), E (25%) kemudian dilakukan analisis proksimat untuk mendapatkan hasil laboratorium. Data hasil penelitian dianalisis menggunakan microsoft excel. Hasil penelitian menunjukkan bahwa kandungan nutrisi pelet ikan yakni protein perlakuan A (24,25%), perlakuan B (25,53%), perlakuan C (26,52%), perlakuan D (27,51%) dan perlakuan E (28,50%), lemak perlakuan A (12,38%), perlakuan B (12,75%), perlakuan C (13,13%), perlakuan D (13,50%) dan perlakuan E (13,88%), karbohidrat perlakuan A (6,40%), perlakuan B (4,80%), perlakuan C (3,20%), perlakuan D (1,60%) dan perlakuan E (0%), kadar air perlakuan A (9,73%), perlakuan B (10,49%), perlakuan C (11,24%), perlakuan D (12%) dan perlakuan E (12,75%) dan kadar abu konstan (9,03%).

Kata kunci: maggot, pelet ikan, analisis proksimat

ABSTRACT

Abdullah Malik Sihombing, NIM 419322021 (2019), Analysis of The Nutritional Content of Fish Pellets from Maggot Protein Sources (*Hermetia illucens* L.)

This study aims to determine the percentage of nutrient content in fish pellets, namely protein, fat, carbohydrates, moisture content and ash content whose protein source is from maggot (*Hermetia illucens*) and the determination of optimal fish pellets. This research was conducted from July 15 to November 14, 2023 at Meta Maggot BSF Farm, Jl Veteran Psr 9, Kel Manunggal, Kec. Labuan Deli, Kab. Deli Serdang, North Sumatra. This research is an experimental research with quantitative descriptive method, namely by using five treatments, namely treatment A with maggot substitution (5%), B (10%), C (15%), D (20%), E (25%) then proximate analysis is carried out to obtain laboratory results. The research data were analyzed using Microsoft Excel. The results showed that the nutritional content of fish pellets, namely protein treatment A (24.25%), treatment B (25.53%), treatment C (26.52%), treatment D (27.51%) and treatment E (28.50%), fat treatment A (12.38%), treatment B (12.75%), treatment C (13.13%), treatment D (13, 50%) and treatment E (13.88%), carbohydrate treatment A (6.40%), treatment B (4.80%), treatment C (3.20%), treatment D (1.60%) and treatment E (0%), moisture content treatment A (9.73%), treatment B (10.49%), treatment C (11.24%), treatment D (12%) and treatment E (12.75%) and ash content constant (9.03%).

Keywords: maggot, fish pellets, proximity analysis