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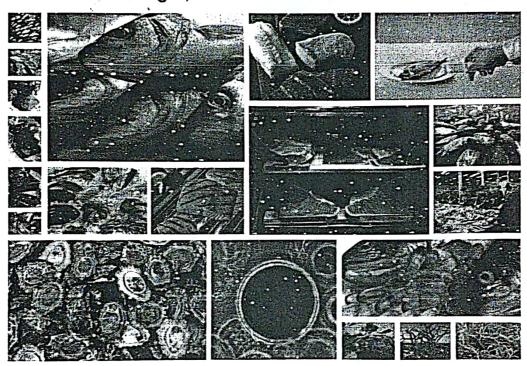
ABSTRACT PROCEEDING

THE 1" INTERNATIONAL SYMPOSIUM ON AQUATIC PRODUCTS PROCESSING

"Maximizing Benefits and Minimizing Risks on Aquatic Products Processing: Blue Economy Approach"



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5	F006	Nofrizal and Takafumi ARIMOTO	Histological approach on lateral line organs of jack mackerel for understanding their swimming behavior
6	F007	T.Arimoto, O.Baba and Y.Miyamoto	Research Activities on Coastal Area Capability Enhancement in Southeast Asia
7	F008	Diniah , Roza Yusfiandayani and Ari Nado Syahrur Ramadan	"IJUK" (PALM FIBRES) AS SUBTITUTE THE CORAL REEFS IN TRAP'S OPERATIONAL
8	F009	Tri Wiji Nurani, Sugeng Hari W., Prihatin Ika Wahyuningrum, Risti Endriani Arhatin, Didin Komarudin	COMPOSITION OF TUNA CATCHES IN TROLLING FISHERY AND TUNA STOCK ASSESSMENT IN THE WATERS OF THE INDIAN OCEAN SOUTH OF EAST JAVA
9	F010	M. Reza Cordova and EttyRiani	GREEN MUSSEL FROM JAKARTA BAY, CHEAP AND NUTRITIOUS PROTEIN SOURCE BUT HARMFUL TO HEALTH
10	F011	Mulyono S. Baskoro, Indra Ambalika Syari, Mujizat Kawaroe, Ronny Irawan Wahju	Squid Eggs Attachment and Fish Association on the Squid Attractor Aggregating Device
11	A001	Yutaka Haga, Ubonrat Limtipsuntorn, Hidehiro Kondo, Ikuo Hirono, Goro Yoshizaki, Shuichi Satoh	Regulation of hepatic gene expression pattern in flounder by dietary fatty acid
12	A002	H. Wu, H.Ohnuki, T. Muramatsu, K. Hibi, H. Ren, H. Endo	Development of label-free biosensor for the detection of steroid hormone in fish
13	A003	Rachmawati Rusydi, Amararatne Yakupitiyage, Wenresti G. Gallardo, Lionel Dabbadie, Anil K. Anal	Potential of Nostoc muscorum Cultured in BG-II medium as Biodiesel Feedstock Source: Evaluation of nutrient requirement for culture and its daily lipid content
14	A004	Ibnu Dwi Buwono, Nono Carsono, Yuniar Mulyani and Mochamad Untung Kurnia Agung	Utilization of β-Actin Promoter derived from Walking Catfish (Clarias batrachus) as Alternative Subtitution of Viral Promoter on Transgenic Fish Production
15	A005	Indra Suharman, Adelina and Ilhamdi	Substituting fishmeal with defatted soybeanmeal in diets forfreshwater catfish, Mystusnemurus (C&V)
16	A006	Eddy Supriyono, Kukuh Nirmala, Dudi Lesmana, Nur Azmi Setyawidati, Kukuh Adiyana	Prelimenary study of utilization of campartment in spiny lobster culture, Panulirus homarus, growing in floating cages system: stress and biological responses study
1 <i>7</i>	A007	Suci Antoro, M. Zairin Junior, Alimuddin, Agus Suprayudi, Irvan Faizal	Growth performance and histological observation of the humpback grouper juvenile (Cromileptes altivelis) after treated with recombinant growth hormone
18	A008	Sri Nuryati, Alimuddin, Dwi Hany Yanti, Nurly Faridah, Arief Eko Prasetiyo and Ayi Santika	Histamine and testosterone levels, and response of carnivorous fish model on feeding with transgenic common carp flesh

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A005

Substituting fishmeal with defatted soybeanmeal in diets forfreshwater catfish, Mystusnemurus (C&V)

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Abstract

A 56 days feeding experiment was carried out with freshwater catfish Mystusnemurus (C&V) to determine the amount of defatted soybean meal (DSM) that could replace fish meal (FM) in formulated diets without reducing growth performance. Fingerling freshwater catfish (initial average weight, 2.5 g) were fed five isonitrogenous diets (protein content, 350 g kg⁻¹). The control diet used FM as the sole protein source, the other four diets were prepared to replace FM protein at levels of 25%, 50%, 75% and 100% with DSM. The fish readily accepted all experimental diets and low mortality were recorded during the trial. There were no significant differences in growth performance of freshwater catfish (P< 0.05) fed the diets with 25%, 50%, 75% and 100% replacement levels compared with fish offered the control diet (100% FM), final body weight and specific growth rate values in the 25% replacement diet were highest. At the levels of 500, 750 and 1000 g kg⁻¹of the protein, DSM inclusion caused a severe decrease in growth performance, feed utilization and protein retention. The results in the present study indicate that up to 25% of FM protein can be replaced by DSM protein without causing reduction in growth performance, feed utilization and protein retention of freshwater catfish.

Keywords: defatted soybean meal, fish meal, freshwater catfish, growth performance, protein retention











CERTIFICATE Is hereby presented to

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