



PUBLICATION INCENTIVE SUBMISSION FORM

DR. OTHELLO B. CAPUNO

Vice President for Research, Extension & Innovation
Visayas State University
Visca, Baybay City, Leyte

Dear Dr. Capuno:

In connection with the VSU Publication Incentive System, may I submit my publications for the year **CY 2019**:

A. Articles in Peer-reviewed Publications

Author(s)	First Author/ Corresponding Author	Title of Paper	Journal Title, Issue No. and Pages	Year of Publication	Publisher	Place of Publication (City and Country)	Journal Status*	Impact Factor
Lauzon, Quenstein D.; Serrano, Augusto Jr. E.; Canillo, Shellah Dee; and Tumboko n, Barry Leonard	Lauzon, Quenstein D./Serrano, Augusto Jr. E.	Effects of High Carbohydrate and Benfotiamine on the Growth Performance and Feed Efficiency of Juvenile Nile Tilapia, <i>Oreochromis niloticus</i>	The Israeli Journal of Aquaculture (IJA), 71 and 8 pages	2019	Kibbutz Ein Hamifratz/ Aquaculture Hub	Israel	Indexed in Science Citation Index Expanded, Scopus	0.23

--	--	--	--	--	--	--	--	--

*International (ISI/Science Direct/Scopus Indexed Journal)
 International (Non-ISI/Science Direct/Scopus Indexed Journal)
 National

Note: As per the approved VSU Publication Incentive Guidelines, only the first or corresponding author is eligible to apply for the publication incentive/award.

B. Whole Book

Author(s)	First Author	Title of Book	Year of Publication	Publisher	Place of Publication (City and Country)	Level (National or International)

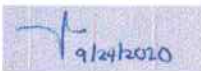
C. Book Chapter

Author(s)	First Author	Title of Chapter	Pages	Title of Book	Year of Publication	Publisher	Place of Publication (City and Country)	Level (National or International)

Sincerely yours,

Name of Faculty: **Quenstein Dizon Lauzon**

Signature:

 9/24/2020

Department: Fisheries

College: College of Fisheries and Aquatic Sciences, VSU Tolosa

Mobile No: 09489201063

Email: quenstein.lauzon@vsu.edu.ph



Produced by the AquacultureHub non-profit Foundation
the IJA is an open-access, scientific journal, published on
<http://www.aquaculturehub.org/group/israelijournalofaquaculturebamidgehija>
To read papers free of charge, please register online at
the above website.
Sale of IJA papers is strictly forbidden.



Effects of High Carbohydrate and Benfotiamine on the Growth and Feed Efficiency of Juvenile Nile Tilapia, *Oreochromis niloticus*

Lauzon QD^{1,3}, Canillo SDT², Tumbokon BLM², Serrano AE, Jr.^{1,2*}

¹ *Institute of Aquaculture, College of Fisheries and Ocean Sciences, University of the Philippines Visayas, Miagao 5023 Iloilo, Philippines*

² *National Institute of Molecular Biology and Biotechnology, University of the Philippines Visayas, Miagao 5023 Iloilo, Philippines*

³ *Visayas State University-Tolosa, Tanghas, Tolosa 6503 Leyte, Philippines*

Key words: benfotiamine; high carbohydrate diet; Nile tilapia; growth enhancer; feed stimulant

Abstract

This study aimed to evaluate the effects of a high carbohydrate diet (HC) alone and HC supplemented with benfotiamine (HCB), a human anti-diabetic supplement, on the growth performance of Nile tilapia fry, *Oreochromis niloticus*. A total of 180 Nile tilapia fry (AWB=0.01g) were randomly distributed to 9 tanks and fed one of three experimental diets, namely, a control diet containing 15% carbohydrate; high carbohydrate diet (HC) containing 25% carbohydrate; and high carbohydrate diet (25%) supplemented with 0.02% benfotiamine (HCB) for 8 weeks. Increasing corn starch in the diet from 15% (i.e. control diet) to 25% (i.e. HC diet) did not have any effect on the growth performance nor feed efficiency of the Nile tilapia. In contrast, Nile tilapia fed the HCB diet exhibited significantly the highest final average body weight, weight gain, specific growth rate, feed intake and whole-body lipid content and the most efficient FCR among the treatments. Results of the attractability tests showed that the HCB diet significantly attracted the most percentage of fish. In conclusion, the findings indicated that the Nile tilapia efficiently utilized an increase of carbohydrate from 15% to 25% and that dietary benfotiamine significantly increased the utilization of this diet, enhancing further its growth performance and feed utilization; benfotiamine also increased the attractability of the diet.

* Corresponding author. e-mail: serrano.gus@gmail.com