

Accepted Manuscript

Comparative evaluation of dietary probiotics *Bacillus subtilis* WB60 and *Lactobacillus plantarum* KCTC3928 on the growth performance, immunological parameters, gut morphology and disease resistance in Japanese eel, *Anguilla japonica*

Seunghan Lee, Kumar Katya, Youngjin Park, Seonghun Won, Minji Seong, Ali hamidoghli, Sungchul C. Bai

PII: S1050-4648(16)30797-5

DOI: [10.1016/j.fsi.2016.12.035](https://doi.org/10.1016/j.fsi.2016.12.035)

Reference: YFSIM 4376

To appear in: *Fish and Shellfish Immunology*

Received Date: 2 September 2016

Revised Date: 23 December 2016

Accepted Date: 24 December 2016

Please cite this article as: Lee S, Katya K, Park Y, Won S, Seong M, hamidoghli A, Bai SC, Comparative evaluation of dietary probiotics *Bacillus subtilis* WB60 and *Lactobacillus plantarum* KCTC3928 on the growth performance, immunological parameters, gut morphology and disease resistance in Japanese eel, *Anguilla japonica*, *Fish and Shellfish Immunology* (2017), doi: 10.1016/j.fsi.2016.12.035.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



Comparative evaluation of dietary probiotics *Bacillus subtilis* WB60 and *Lactobacillus plantarum* KCTC3928 on the growth performance, immunological parameters, gut morphology and disease resistance in Japanese eel, *Anguilla japonica*

Seunghan Lee^a, Kumar Katya^b, Youngjin Park^a, Seonghun Won^a, Minji Seong, Ali hamidoghli^a, Sungchul C. Bai^{a*}

^a *Dept. of Marine Bio-materials and Aquaculture/
Feeds & Foods Nutrition Research Center (FFNRC),
Pukyong National University, Busan, 608-737, Rep. of Korea*

^b *FishPLUS, CFF, Kuala Lumpur, Malaysia*

*** Correspondence:** Sungchul C. Bai

Telephone +82-51-629-7922, Fax +82-51-628-6873

E-mail: scbai@pknu.ac.kr (S.C. Bai)

Download English Version:

<https://daneshyari.com/en/article/5540450>

Download Persian Version:

<https://daneshyari.com/article/5540450>

[Daneshyari.com](https://daneshyari.com)