

Accepted Manuscript

Characterisation of the intestinal microbial communities of rainbow trout (*Oncorhynchus mykiss*) fed with *Hermetia illucens* (black soldier fly) partially defatted larva meal as partial dietary protein source

Leonardo Bruni, Roberta Pastorelli, Carlo Viti, Laura Gasco, Giuliana Parisi



PII: S0044-8486(17)31366-2
DOI: <https://doi.org/10.1016/j.aquaculture.2018.01.006>
Reference: AQUA 633008
To appear in: *aquaculture*
Received date: 7 July 2017
Revised date: 4 January 2018
Accepted date: 5 January 2018

Please cite this article as: Leonardo Bruni, Roberta Pastorelli, Carlo Viti, Laura Gasco, Giuliana Parisi , Characterisation of the intestinal microbial communities of rainbow trout (*Oncorhynchus mykiss*) fed with *Hermetia illucens* (black soldier fly) partially defatted larva meal as partial dietary protein source. The address for the corresponding author was captured as affiliation for all authors. Please check if appropriate. Aqua(2017), <https://doi.org/10.1016/j.aquaculture.2018.01.006>

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.

Short title: Intestinal bacteria of rainbow trout fed with *Hermetia illucens*

Full title: Characterisation of the intestinal microbial communities of rainbow trout (*Oncorhynchus mykiss*) fed with *Hermetia illucens* (black soldier fly) partially defatted larva meal as partial dietary protein source

Leonardo Bruni¹, Roberta Pastorelli², Carlo Viti³, Laura Gasco⁴, Giuliana Parisi^{1*}

¹ Department of Agri-Food Production and Environmental Sciences, Section of Animal Science, University of Florence, Via delle Cascine 5, 50144 Firenze, Italy

² Research Centre for Agriculture and Environment (CREA-AA), via di Lanciola 12/A, Firenze, Italy

³ Department of Agri-Food Production and Environmental Sciences, Section of Agricultural Microbiology, University of Florence, Piazzale delle Cascine 18, 50144 Firenze, Italy

⁴ Department of Agricultural, Forest and Food Sciences, University of Turin, Largo P. Braccini 2, Grugliasco, Torino, Italy

* Corresponding author

E-mail: giuliana.parisi@unifi.it (GP)

Address: via delle Cascine 5, 50144 Firenze, Italy

Abstract

Scientific research has examined the possibility of replacing fishmeal with alternative protein sources in feed for fish. The literature indicates that insects are an eco-friendly nutrient-rich alternative to fishmeal. The purpose of this study was to investigate the effects of including insects in a diet for rainbow trout (*Oncorhynchus mykiss*), by analysing organosomatic parameters, fillet

Download English Version:

<https://daneshyari.com/en/article/8493425>

Download Persian Version:

<https://daneshyari.com/article/8493425>

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