Accepted Manuscript

Physiological responses of Atlantic salmon (Salmo salar L.) fed very low (3%) fishmeal diets supplemented with feeding-modulating crystalline amino acid mixes as identified in krill hydrolysate



Katerina Kousoulaki, Ivar Rønnestad, Raja Rathore, Hanne Jorun Sixten, Paddy Campbell, Sigve Nordrum, Rolf Kristian Berge, Sissel Albrektsen

PII: S0044-8486(17)30844-X

DOI: doi:10.1016/j.aquaculture.2017.12.011

Reference: AQUA 632965

To appear in: aquaculture

Received date: 1 May 2017

Revised date: 5 December 2017 Accepted date: 7 December 2017

Please cite this article as: Katerina Kousoulaki, Ivar Rønnestad, Raja Rathore, Hanne Jorun Sixten, Paddy Campbell, Sigve Nordrum, Rolf Kristian Berge, Sissel Albrektsen, Physiological responses of Atlantic salmon (Salmo salar L.) fed very low (3%) fishmeal diets supplemented with feeding-modulating crystalline amino acid mixes as identified in krill hydrolysate. The address for the corresponding author was captured as affiliation for all authors. Please check if appropriate. Aqua(2017), doi:10.1016/j.aquaculture.2017.12.011

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.

ACCEPTED MANUSCRIPT

Physiological responses of Atlantic salmon (*Salmo salar* L.) fed very low (3%) fishmeal diets supplemented with feeding-modulating crystalline amino acid mixes as identified in krill hydrolysate

Katerina Kousoulaki*¹, Ivar Rønnestad², Raja Rathore³, Hanne Jorun Sixten⁴, Paddy Campbell⁴, Sigve Nordrum⁵, Rolf Kristian Berge⁶, and Sissel Albrektsen¹

¹ Nofima AS, Kjerreidviken 16, N-5141 Fyllingsdalen, Norway

² University of Bergen, Department of Biology, Norway

³ Pelagia AS, Norway

⁴ BioMar S.A., Trondheim, Norway

⁵AkerBiomarine ASA, Oslo, Norway

⁶ Department of Medicine, University of Bergen, Norway

*Corresponding author. Tel.: +47 55501276; +47 47910710

E-mail address: katerina.kousoulaki@nofima.no (K. Kousoulaki)

Abstract

Crystalline amino acids and nucleotides, previously identified as potential feed-intake modulators in krill hydrolysate (KH), were mixed into low fish meal diets for Atlantic salmon in five combinations: A1) Arg, A2) Arg+Ala+Pro, A3) Arg+Ala+Pro+Leu+Phe, A4) Arg+Ala+Pro+Leu+Phe + nucleotides (AMP, GMP, CMP, IMP), and A5) Arg+Ala+Pro+Leu+Phe+ nucleotides + rest free amino acids as in KH. Each compound mix

Download English Version:

https://daneshyari.com/en/article/8493460

Download Persian Version:

https://daneshyari.com/article/8493460

<u>Daneshyari.com</u>