### Accepted Manuscript

Utilization of glycerol for endogenous glucose and glycogen synthesis in seabass (Dicentrarchus labrax): A potential mechanism for sparing amino acid catabolism in carnivorous fish Aquaculture

Joao Rito, Ivan Viegas, Miguel Â. Pardal, Isidoro Metón, Isabel V. Baanante, John G. Jones

PII: S0044-8486(18)30397-1

DOI: doi:10.1016/j.aquaculture.2018.08.066

Reference: AQUA 633508

To appear in: aquaculture

Received date: 28 February 2018
Revised date: 14 August 2018
Accepted date: 25 August 2018

Please cite this article as: Joao Rito, Ivan Viegas, Miguel Â. Pardal, Isidoro Metón, Isabel V. Baanante, John G. Jones, Utilization of glycerol for endogenous glucose and glycogen synthesis in seabass (Dicentrarchus labrax): A potential mechanism for sparing amino acid catabolism in carnivorous fish. Aqua (2018), doi:10.1016/j.aquaculture.2018.08.066

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**

# Utilization of Glycerol for Endogenous Glucose and Glycogen Synthesis in Seabass (*Dicentrarchus labrax*): a Potential Mechanism for

Sparing Amino Acid Catabolism in Carnivorous Fish

Joao Rito<sup>a,b,c</sup>, Ivan Viegas<sup>a,b,c</sup>, Miguel Â. Pardal<sup>b,c</sup>, Isidoro Metón<sup>d</sup>, Isabel V. Baanante<sup>d</sup>, and John G. Jones<sup>a,c\*</sup>

<sup>a</sup>CNC - Center for Neurosciences and Cell Biology, University of Coimbra, 3004-517 Coimbra, Portugal.

<sup>b</sup>CFE - Center for Functional Ecology, University of Coimbra, Apartado 3046, 3001-401 Coimbra, Portugal.

<sup>c</sup>Department of Life Sciences, University of Coimbra, 3001-401 Coimbra, Portugal.

<sup>d</sup>Secció de Bioquímica i Biologia Molecular, Departament de Bioquímica i Fisiologia, Facultat de Farmàcia, Universitat de Barcelona, Joan

XXIII 27, 08028 Barcelona, Spain.

#### \*Address for Correspondence:

John G. Jones, D.Sc.

Center for Neurosciences and Cell Biology

UC Biotech, Biocant Park,

Nucleo 4, Lote 8, 3060-197 Cantanhede, Portugal

email: john.griffith.jones@gmail.com

**Keywords:** <sup>13</sup>C NMR isotopomer analysis; gluconeogenesis; triose phosphate isomerase; glycerol kinase

#### Download English Version:

## https://daneshyari.com/en/article/11031938

Download Persian Version:

https://daneshyari.com/article/11031938

<u>Daneshyari.com</u>