

Influence of dietary bulk agents (silica, cellulose and a natural zeolite) on protein digestibility, growth, feed intake and feed transit time in European seabass (



The incorporation of various bulk agents by substitution of an equivalent amount of the basal mixture was studied in terms of protein digestibility, growth performance and body composition in European seabass (*Dicentrarchus labrax*) juveniles. During the growth trial, triplicate groups of 40 seabass (mean initial weight: 7.0 g) were grown in seawater (salinity: 35; temperature: 18 °C) over 60 days. Fish were hand-fed, three times a day, one of seven experimental diets. Bulk agents tested at 10 or 20 % level of incorporation were silica, cellulose and a natural zeolite (chabamin). Feeding rates were adjusted in proportion to the percent dilution of the control diet without bulk incorporation. The incorporation of the bulk agents, at a 10 and 20 % level, did not affect protein digestibility or growth performance. Dietary bulk incorporation reduced feed efficiency values, particularly at the 20 % incorporation level. However, this reduction was mostly caused by the dietary nutrient dilution of the bulk-incorporated diets, rather than by a negative effect of the bulk agents as dietary ingredients. In comparison to the control treatment, bulk incorporation at 10 and 20 % level did not

affect protein retention values. When compared with the control diet, 20 % bulk agent incorporation changed the evacuation profile of faeces and increased faecal egestion time.

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Obtenir le document : EDP Sciences

Thème (issu du Text Mining) : BIOCHIMIE - CHIMIE

Date : 1998-07-15

Format : text/xml

Source : [https://doi.org/10.1016/S0990-7440\(98\)89004-9](https://doi.org/10.1016/S0990-7440(98)89004-9)

Langue : Anglais

Télécharger les documents : [https://www.alr-journal.org/10.1016/S0990-7440\(98\)89004-9/pdf](https://www.alr-journal.org/10.1016/S0990-7440(98)89004-9/pdf)

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