

THE INFLUENCE OF DIFFERENT ENVIRONMENTAL CONDITIONS ON FLESH QUALITY INDICES OF FARMED SEA BASS, IN NW GREECE

DIMITRIOS S. LENAS¹, DIMITRIOS J. TRIANTAFILLOU², PANAGIOTIS LOGOTHETIS¹, FOTINI KAKALI¹, COSMAS NATHANAILIDES¹
Department Aquaculture & Fisheries, TEI of Epirus, Igoumenitsa, Greece
Department of Logistics, ATEI of Thessaloniki, Branch of Katerini, Greece

DELOVANJE RAZLIČITIH USLOVA SREDINE NA KVALITET MESA FARMSKI GAJENOG BRANCINA U SEVEROZAPADNOJ GRČKOJ

Apstrakt

Ispitivan je hemijski sastav i kvalitet lipida farmski gajenog brancina iz područja Severozapadne Grčke. Uočene su razlike u hemijskom sastavu fileta brancina farmski gajenog u različitim uslovima sredine. Ribe gajene u lagunama imale su viši sadržaj vlage i niži sadržaj masti u poređenju sa ribama gajenim u morskim plutajućim kavezima. Rezultati su pokazali da postoje variranja u kvalitetu mesa gajene ribe koji se mogu pripisati razlikama u sistemima gajenja i uslovima akvakulture. Istraživanje je bilo ko-finansirano od strane Evropske Unije (Evropski Socijalni Fond, European Social Fund – ESF) i Grčkih nacionalnih fondova kroz Operativni program “Obrazovanje i celoživotno učenje” (“Education and Lifelong Learning”) nacionalnog strateškog referentnog okvira, National Strategic Reference Framework (NSRF) – programa za finansiranje istraživanja ARCHIMEDES III Investiranje u društvo znanja kroz Evropski Socijalni Fond.

Cljučne reči: akvakultura, kalifornijska pastrmika, brancin, kvalitet mesa, riblji lipidi

Abstract

The chemical composition and lipid quality of farmed sea bass from NW Greece was investigated. A difference in the proximate composition and filleting yield of farmed sea bass reared in different environmental conditions was observed in the present work. Fish reared in aquaculture lagoons exhibited higher moisture and low lipid compared to the fish farmed in marine floating cages. The results of the present work indicate that farmed fish exhibit variability in the flesh quality which can be attributed to differences

in the rearing systems, aquaculture conditions with consequences for the nutritional benefits of consuming farmed fish. This research has been co-financed by the European Union (European Social Fund – ESF) and Greek national funds through the Operational Program “Education and Lifelong Learning” of the National Strategic Reference Framework (NSRF) - Research Funding Program: ARCHIMEDES III. Investing in knowledge society through the European Social Fund.

Keywords: aquaculture, rainbow trout, sea bass, flesh quality, fish lipid