

University of Zabol Graduate school Faculty of Natural resources Department of fisheries

The Thesis Submitted for the Degree of M.Sc Of Fish products processing

Title:

Effect of dietary containing Artemisia sieberi on the quality of Common carp fillet during storage in the refrigerator

Supervisors:

Dr. Ebrahim Alizadeh Dooghi Kalai

Dr. Ehsan Ahmadifar

Advisor:

Dr. Hossein Adineh

by:

Iman Sarhadi

February 2017

Abstract:

The aim of this study was to evaluate the effect of Artemisia extract on the quality of common carp fillets during storage in a refrigerator. For this purpose, fish with a weighing average of \. grams were distributed in fiberglass ponds with a density of 'o fish and fed with ', .o, ', and '.o percent extract of Artemisia leaves during q weeks. At the end of the period, samples were collected and immune parameters (lysozyme, immunoglobulin, total protein and serum complexes), antioxidant enzymes (catalase, superoxide dismutase and glutathione reductase) were measured. Then fish fillets and chemical parameters including pH of nitrogen beds, antibiotic and peroxide, microbial (total bacteria and bacteria on days ·, r, \, and 17) were investigated. The results showed that the rate Nitrogenous levels (TVB-N) and TBA and peroxide value (PV) increased significantly with storage life (P < · . · °). Picrobiotic results (PTC, TVC) showed that treatment Artemisia extract had lower bacterial load than control (P < ... o), and the lowest and highest bacterial load was observed in \.o and %.o of Artemisia extract, respectively.

Key words: Artemisia extract, common carp, antioxidant