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Poster Presentation

Determination of vitamin E (α-Tocopherol) and A (Retinol) of Pacific oyster (*Crassostrea gigas* Thunberg, 1793) at Different Period Using HPLC-DAD

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In recent years, the risk of diseases such as heart disease, hypertension, cancer, sugar and obesity has increased considerably due to reasons such as negative physical conditions, unhealthy conditions, insufficient nutrition, social turmoil and genetic predisposition. Along with the increasing population, there are difficulties in having the needs of qualified animal protein. Aquaculture and fishing of bivalve species has an important place in aquaculture production. It is especially among the nutrients traditionally consumed in many countries such as Japan, France and the USA. Bivalve species have an important place in aquaculture and are called the fruits of the sea. In Turkey, it is observed the very limited consumption of bivalve. It is known that it does not contain the Mollusca in Turkish traditional kitchen. However, as the consumption of these species has been revealed in recent years, it has increased in orientation. Vitamins are essential nutrients and necessary for the normal functioning of the human body. Vitamins cannot be synthesized by humans. In this study, it was investigated vitamin E (α-tocopherol) and A (retinol) of Pacific oyster (*Crassostrea gigas* Thunberg, 1793) collected from Bandırma Bay, Balıkesir, Turkey. Measurements were made by Shimadzu brand HPLC and diode array detector (DAD) in Faculty of Marine Sciences and Technology. The calibration curves were prepared for α-tocopherol and retinol, and measurements were performed at 290 nm. It was found to be ranged from 5 to 13 µg/g as α-tocopherol and from 3 to 4 µg/g as retinol. As a result, it was found to be rich as α-tocopherol and retinol contents in Pacific oyster species.

Keywords: Crassostrea gigas, α-Tocopherol, Retinol, HPLC