

The Effects of Dietary Flaxseed Oil Supplementations on Punicic Acid of the Yolks in Quail Muscle

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Abstract : This experiment was carried out to determine effects of Japanese quail diets which is supplemented with different levels of punicic acids and CLA compositions in Japanese quail. In this study, eighty laying quails at 12 weeks of age were used. They were divided into 4 treatment groups, each group included 20 quails. The diets in treatment groups contained different levels of flaxseed oil. At the end of the experiment lasted for 21 days, 5 quail taken from each group were subjected to analysis. Punicic acid content of muscle were determined by gas chromatography. Twenty five different fatty acid components were determined in the compositions of quail muscle. No differences were found in oil content among the groups.

Keywords : quail egg yolk, punicic acid, flaxseed oil, gas chromatography

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