



## Dietary Wheat Germ Oil Affected Growth Performance, Feed Utilization and Carcass Composition of Nile Tilapia (*Oreochromis Niloticus*)

Ali S. M.El-Nadi<sup>1\*</sup> and Doaa. K. Khames<sup>2</sup>

<sup>1</sup>Fish Nutrition Lab, Animal Production Department, National Research Center, Dokki, Giza, Egypt

<sup>2</sup>Central Laboratory for Aquaculture Research, Agriculture Research Center, Ministry of Agriculture, Egypt

**Abstract:** This experiment was conducted to check the effect of dietary supplementation with Wheat Germ Oil (WGO) on growth performance, body composition and feed utilization of *O. nilotica* fingerlings with an average  $20 \pm 0.21$ g. 75 days feeding trial was conducted in 12 aquariums (50 – 50 – 80cm in diameters). with three replications per treatment. Diets contain 0% (control), 0.5, 1.0 and 1.5% WGO. All experimental feeds contained isonitrogenous (27% crude protein) and isocaloric (425 Kcal gross energy/100g). The results revealed that WGO supplementation significantly enhanced the fish growth over the control group. Also survival rate was significantly increased with increasing WGO percentage in the diets. While, feed conversion ratio gradually significantly improved with increasing WGO percentage in the diets 1.5% inclusion level after that, without significantly increased. was A significant increasing in body protein content with increasing WGO percentage in the diets was observed. While moisture and fat content were significantly decreased with increasing WGO percentage in the diets. On other hand ash content was significant difference by diet. In conclusion, the present study suggested that WGO could be used as a growth enhancer in Nile tilapia *O. niloticus* feeds.

**Keywords:** Wheat germ oil. Growth performance. Nile tilapia. Aquaculture.