



## **Responses of White Oscar *Astronotus ocellatus* growth factors to diets containing two different pigments; pink Lucantin and yellow Carofil**

Hasaninia A.<sup>1</sup>; Vahabzadeh Roudsari H.<sup>1\*</sup>; Sadeghpour A.<sup>1</sup>

1-Islamic Azad University - Lahijan Branch, Faculty of Natural Resource, Department of Aquaculture, Lahijan, Iran

\*Corresponding author's email: Habib.vahabzadeh@gmail.com

### **Abstract:**

The use of carotenoids is one of the most important options in creating ornamental fish color marketability. During a 56-day experiment, 144 White Oscar (*Astronotus ocellatus*) produced by the same parents; with an average weight of  $9.37 \pm 0.06$  g and an average length of  $8.24 \pm 0.02$  cm reared in three treatments. The treatments were designed in 12 aquariums by diets containing Pink Lucantin pigment 200 mg /kg of food and yellow Carofil (200 mg / kg food) and combined of two pigments (100 mg per pigment per 1 kg of food) and a control (without pigment). Biometric results of all fish from each treatment at the end of the rearing period showed that the use of both pigments separately and in combination in all three treatments of Oscar fish growth indices increased significantly compared to the control treatment ( $P < 0.05$ ).

**Keywords:** Pink Lucantin, Yellow Carophil, pigment, White Oscar, *Astronotus ocellatus*