

FIRST STUDY ON THE USAGE OF OVAPRIM IN THE INDUCED SPAWNING OF COMMON CARP *CYPRINUS CARPIO* IN IRAQ

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Abstract

The synthetic product Ovaprim had been used for the induced spawning of *Cyprinus carpio*, comparing with the Pituitary gland extraction . The study was done in marine science center freshwater fish hatchery. The Ovaprim is Analog of Gonadotropin releasing hormone of salmon (sGnRHa) as well as Domperidone as Dopamine Antagonist. The first fish group of *C. carpio* was injected with 0.5 ml of Ovaprim in one dose, while the second (control) group was injected with PG extract in tow dose (0.3mg/kg as a first & 3.0 mg/Kg as a second dose). The results showed that the use of Ovaprim gives best results than PG extract in the parameters of induced spawning. Average Ova weight provided by hand stripping was higher in Ovaprim treatment. The average present of ova weight per body weight was also higher in Ovaprim (11.97%) while it was 7.245% with PG. With Ovaprim all the fishes had free flowing Ova while 50% was like that in PG injected fishes. Fertilization rate was higher (95%) with Ovaprim. Hatching rate was increased by Ovaprim to reach 93.75% while it was 83.75% for PG. In addition it was seen that the usage of Ovaprim is more practical in the hatchery management's work. It was found that Ovaprim is cheapest than the usage of PG extraction during the study time period. Thanks were given to Syndel Inc. (Vancouver B.C) for offering free samples of the product.