

## **ABSTRACT**

### **TOXICITY AND ANESTHETIC ABILITY OF CLOVES OIL (*Sygnium aromaticum*) TO RAINBOW FISH (*Glossolepis incisus*) SEED**

**By**

**YAYU SASKIA**

The research of cloves oil as anesthetic ability and toxicity was used to determine the lethal concentration ( $LC_{50}$ ) of rainbow fish seed, effective concentration ( $EC_{50}$ ) of rainbow fish seed, also time sedation and recovery time after anesthetic by cloves oil. The research was conducted in BPPBIH Depok, West Java July-August 2012. Data analysis using probit analysis was conducted to find  $LC_{50}$ -48 hour of rainbow fish seed. Whilst linear regression analysis model was conducted to seek time sedation and recovery time of rainbow fish seed after anesthetic with cloves oil. The results were showed that  $LC_{50}$  was 0,273 ml/l and  $EC_{50}$  was 0,157 ml/l. The best treatment was 0,158 ml/l of cloves oil concentration. The time required to anesthetize 50% of seeds was 45 minutes and time to conscious 50% of seeds was 10 minutes.

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Keywords : rainbow fish, cloves oil, toxicity,  $LC_{50}$ ,  $EC_{50}$