

**THE EFFECT OF *Spirulina platensis* EXTRACT ON HISTOPATHOLOGIC OF GILLS OF GOURAMY (*Oshpronemus gouramy*) BECAUSE OF INFECTED BY *Aeromonas hydrophila***

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**ABSTRACT**

The aim of this study is to examine the effect of *Spirulina platensis* extract on histopathologic of gouramy gills (*Oshpronemus gouramy*) because of infected by *Aeromonas hydrophila*. The sample were using 20 gouramy divided into 5 groups: group I (K<sup>-</sup>) as a negative control were dipped into water twice for 3 hours, group II (K<sup>+</sup>) as a positive control were dipped into water twice for 3 hours and after second dipping followed by *Aeromonas hydrophila* 1ml/5L, group III (P1) were dipped into *Spirulina platensis* 200mg/L twice for 3 hours and after second dipping followed by *Aeromonas hydrophila* 1ml/5L, group IV (P2) were dipped into *Spirulina platensis* 400mg/L twice for 3 hours and after second dipping followed by *Aeromonas hydrophila* 1ml/5L, group V (P4) were dipped into *Spirulina platensis* 600mg/L twice for 3 hours and after second dipping followed by *Aeromonas hydrophila* 1ml/5L. On the 18th day surgery, were done for taking data of the gills histopathology. The data of the gills histopathology were analyzed by Kruskall Walis, followed by Z test. The result of Kruskall Walis showed that giving *Spirulina platensis* has significant difference ( $p < 0,05$ ). From the research it can be concluded that *Spirulina platensis* can maintains the histopathologic of gouramy gills because of infected by *Aeromonas hydrophila*.

**Key words:** *Spirulina platensis*, *Aeromonas hydrophila*, histopathologic, gills