

ABSTRACT

Bioassays were conducted to test the effects of hydrogen sulfide toxicity on Pla duk dan (Clarias batrachus Linnaeus) fingerlings to determine acute toxicity. The median lethal concentrations (LC_{50}) for the fingerlings were 6.3235 and 5.3088 mg/l H_2S for 24 and 48 hours respectively. The effects of some inorganic compounds were also studied and resulted in antagonistic effects. NaCl, CaO, and Fe_2O_3 were added to decrease the toxicity of hydrogen sulfide. After two days of exposure to H_2S concentrations, the LC_{50} values of H_2S toxicity interacted with NaCl .25, .1 ppt; CaO 50, 30 mg/l; Fe_2O_3 1 mg/l were 6.7158, 5.9142, 5.926, 10.491, and 10.846 mg/l, respectively.

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