The efficacy of various anaesthetics in tench (tinca tinca l.) related to water temperature

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The effect of three different anaesthetics, 2-phenoxyethanol (0.6 ml/l), Propiscin (0.75 ml/l)and clove oil (0.033 ml/l), on adult tench (Tinca tinca L.) of mean body weight 260 g (66–583 g), of both sexes was tested at four different water temperatures (17.9; 20.4; 22.6 and 25.1°C). The time periods necessary for the induction of particular characteristic phases of anaesthetisation and recovery were evaluated. At all temperatures, the statistically longest induction of anaesthesia ($p < 0.05$) and longest recovery ($p < 0.01$) were registered with Propiscin. With clove oil and 2-phenoxyethanol, the time period necessary for induction of phase II b anaesthesia statistically declined ($p < 0.05$) with rising temperature, however, this phenomenon was not seen with Propiscin.

Keywords:

phase anaesthesia; recovery; 2-phenoxyethanol; Propiscin; clove oil

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