Abstract

In this study, anesthetics effects of spearmint (Menta piperita) oil and lavandula (Lavandula angustifolia) oil as alternative to clove (Eugenia caryophyllatta) oil were evaluated on rainbow trout (Oncorhyncus mykiss). Fish were exposed to different concentrations of the essential oils (30, 40, 50, 100, 150 and 200 mg l⁻¹) for induction of anesthesia. Results showed that induction time decreased with increasing of the concentration of the clove oil and spearmint oil. However, recovery time increased with increasing of the concentration of this anesthetics. 40 and 50 mg l⁻¹ doses of clove oil and 200 mg l⁻¹ of mint oil were showed similar anesthetic effect. Lavandula oil was showed sedative effects on rainbow trout. These ?ndings suggested that spearmint oil is useful anesthetics for rainbow trout.