

Determining of the best density for the transportation of juvenile rainbow trout (*Oncorhynchus mykiss*) when using 2-phenoxyethanol in simulated transport conditions

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Abstract

A trial was done in order to determine the effects of 2-phenoxyethanol on water parameters in simulated transportation of rainbow trout fingerlings (mean body weight: 100g). Dissolved oxygen and ammonia of control group and 3 treated groups (10 ppm 2-phenoxyethanol, 10, 15, and 20 fish/tank, respectively) were tested at 0 h, 1 h, 2 h, 3 h, 4 h, and 5 h treatment duration. The results of present study reveal that 10 ppm 2-phenoxyethanol in density of 10 fish/100l is an effective sedative as a transportation mixture without aeration equipment for rainbow trout.

Keywords: Rainbow trout, 2-phenoxyethanol, Dissolved oxygen, Ammonia, Simulated transport