

Abstract

One of the major problem in hatchery center around the world, the water molds are. *Saprolegniaceae* is the main family of this molds. Much research has been done to deal with these pests in the past and have been introduced various chemicals. Chemicals that are used to destroy mold, but environmental problems are created. So, the use of herbal anti-fungi is the best solution for this problem. Sumac (*Rhus coriaria*) is a medicinal plant with antibacterial and antioxidant properties that is much used in food science. In this study use of watery and methanolic extract of leaf and fruit of sumac that is used to eliminate the invading fungi rainbow trout (*Onchorhynchus mykiss*) eggs. extracts were used in 4 doses of 2000, 1500, 1000 and 500 mg/L with 12-hour periods. Each time the eggs were disinfected for 15 minutes. Comparison with malachite green and formalin treatments were done as control. Studies show that sumac extracts have anti_fungal properties and completely inhibited the activity of fungi. Important finding in this study is that the methanolic extract of sumac fruit in the dose of 2000 mg/L significantly better than malachite green and formalin ($P \leq 0/05$).



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**The Thesis Submitted for the Degree of M.Sc (in the field of
Fisheries)**

**Antifungal effect of methanol and watery
extracts of leaf and fruit of sumac(*Rhus
coriaria L.*) on rainbow trout eggs**

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