
(Coriolus versicolor)

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(Coriolus versicolor)

pH

pH

pH

pH

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Geotrichum.

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sp

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Rhizomucor pusillus

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pusillus

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Trametes nivosa

Rhizomucor

Coriolus versicolor

Eo

()
pH=4

()

Coriolus versicolor

%

SPSS pH

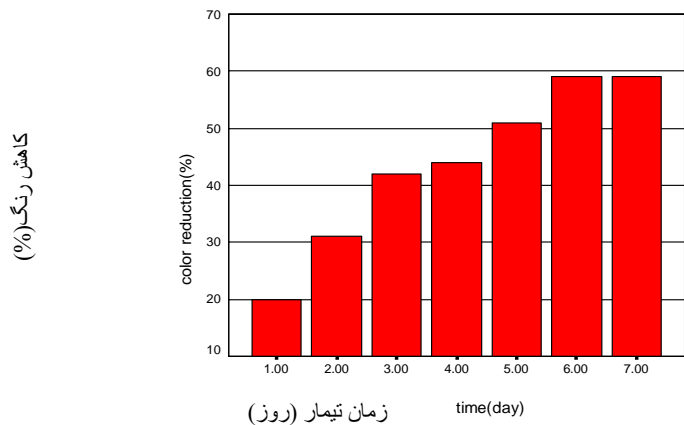
()

pH .

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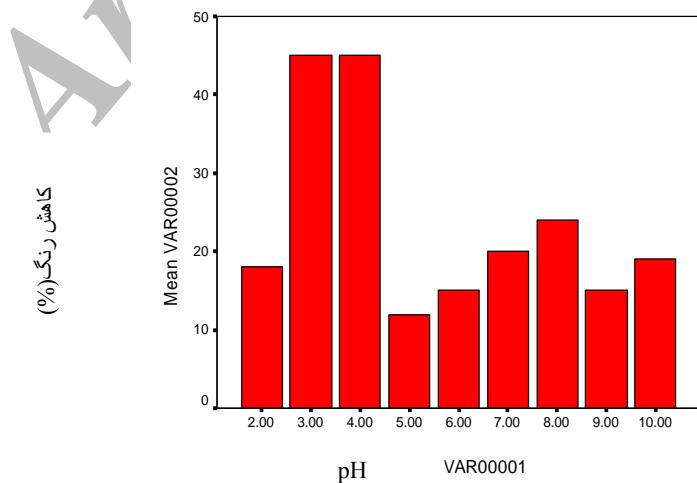
pH= = g/lit= °C=

()



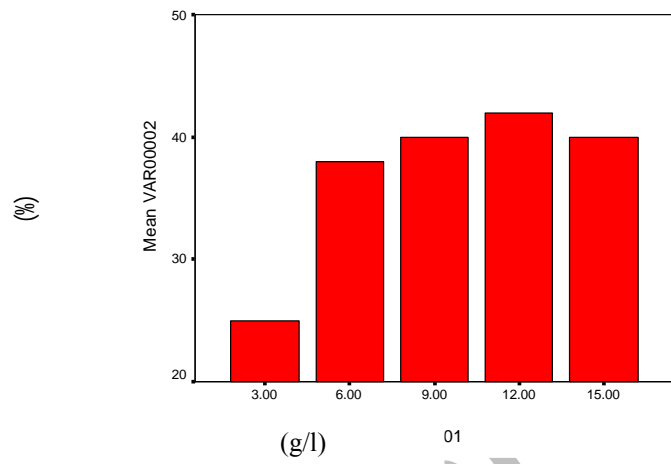
(pH= g/lit= °C=)

pH pH pH pH pH pH



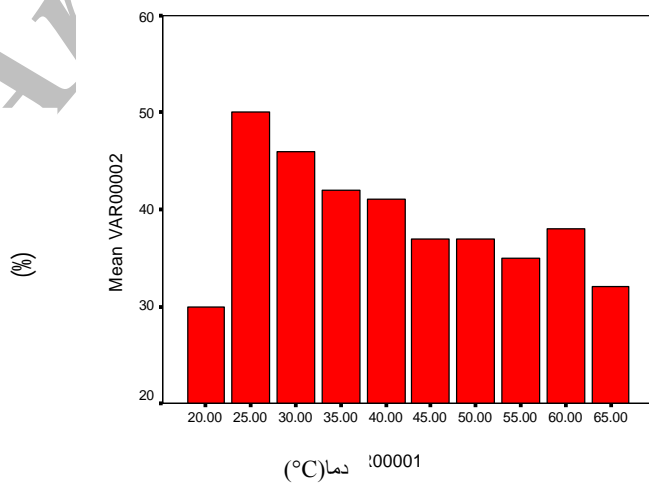
(= g/lit= °C=) PH

()



(pH= = °C=)

(%)



(pH= = g/lit=)

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Evaluation of the effect of rainbow fungus (*Coriolus versicolor*) bleach plant effluent color reduction

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Abstract

The effect of rainbow fungus (*Coriolus versicolor*), an Iranian native fungus, on the color reduction of bleach plant effluent was studied. The effective variables in this research were time, temperature, pH, and biomass amount. To investigate the independent effect of each variable on color reduction, the other variables were kept constant considering the optimum growth conditions of fungi stated in literature. The highest color reductions were observed after each independent variable treatment; time of 6 days (59%), pH of 3 to 4(45%), biomass amount of 12 g/l (42%), and temperature of 25°C (50%). Considering the observed results, it can be concluded that the rainbow fungus can efficiently reduce the color of bleach plant effluent from pulp plant.

Keywords: Rainbow fungus, Bleach plant effluent, Color reduction, Temperature, Treatment time, pH, Biomass

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