

STUDY AICOHOLIC EXTRACT EFFECTING OF ORANGE PLANT IN THE GROWTH OF TWO TYPES OF ALGAE MICROCYSTIS SP. & CHROOCOCCUS SP

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ABSTRACT

The main objective of this study is examine the effect of Bitter Orange (*Citrus aurantium* L.) Peel extract against growth two species of blue-green algae (Cyanobacteria): *Chroococcus* sp and *Microcystis* sp. the growth rate of algae counted directly by Chamber. The algae farms were divided in to five groups as following : the first group(C1): Treatment control concentration 0% , the second group(C2): Treatment of alcoholic extract concentration of the orange plant 1% , the third group(C3): alcoholic extract concentration of the orange plant 3% , the fourth group (C4): Treatment of alcoholic extract concentration of the orange plant 5% , the fifth group(C5): Treatment of alcoholic extract concentration of the orange plant 8% . All groups were noted during the time periods (today's second, the fourth day, the eighth day and the tenth day).

The results showed the Bitter Orange (*Citrus aurantium* L.) Peel extract caused a significant inhibition($p<0.05$) in the rate of growth of algae at concentration 8% for two species, and the colonies were reached in *Microcystis* sp (81) cell in ml compared with control , in *Chroococcus* sp. was least cells (43). *Microcystis* sp was more resistance for Bitter Orange Peel extract.

KEYWORDS: Cyanobacteria, Chroococcus Algae, Microcystis Algae, Bitter Orange (*Citrus Aurantium* L.) Peel Alcoholic Extract