

EFEK EKSTRAK ETANOL BUAH MENKUDU (MARINDA CIRIFOLIA L.)  
TERHADAP PROLIFERASI SEL FIBROBLAS

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**ABSTRACT**

*The purpose of this researchs verified the boost up fibroblast cell proliferation of givng extract ethanol to the mengkudu fruit (Morinda citrifolia L.). Mengkudu have been used hereditary as dill for wound treatment because it is easy to get, cheap, and insignificant side effect. The essence which is consist in mengkudu are scopoletin, anthraquinone one as antimicroba especially bacteria, fungi, and have the main role to solve inflamed and allergy. Vitamin C are one of antioxide and also vital nutrition in wound healing. Proxeronine is alkaloids compound also the cause which consist in mengkudu are very active and important in every cells of human body. Xeronine compound of mengkudu are effectives in accelerating heal the wound with build procollagenase system and change the skin tissue system which is die.*

*Identification of effect the Mengkudu fruit (Morinda citrifolia L.) extract to fibroblast proliferation. The sample was fibroblast cells culture BHK-21 (Baby Hamster Kidney-21). The Mengkudu fruit (Morinda citrifolia L.) extract divide into 3 concentration, 0,2mg/ml; 0,4 mg/ml; and 0,8 mg/ml. These extract applied into fibroblast cell culture and incubated in 24 hours. After incubated, ELISA reader used to read the result of this experiment. The data were compared and examined with Kruskal-Wallis Test end then Z test.*

*Based on the result of the research above is used to Kruskal-Walis test, further to Z test for each group, it can calculate the significant differentiate between cell control with extract group 0,2 mg/ml dan extract group 0,4 mg/ml. But it is detectable in significant differentiate with extract group 0,8 mg/ml. Those verified that increasing doses to be 08 mg/ml the effects are diminution and indifferent with cell control. Further more it can find the significant dissimiliar between extract group 0,8 mg/ml with 0,4 mg/ml and 0,2 mg/ml in this case. It is prove that the extract 0,4 mg/ml with 0,2 mg/ml have the similarity boost up effect of proliferation fibrobast cell. From this research extract 0,4 mg/ml is an optimum doses, it could be find within increasing 0,8 mg/ml doses which is the effect to be decline. Finally it can conclude that ethanol extract of mengkudu fruit (Morinda citrifolia L.) could boost up fibroblast cell proliferation and ethanol extract doses of mengkudu fruit (Morinda citrifolia L.) as 0,4 mg/ml are optimum could boost up fibroblast cell proliferation.*

**Key words :** *Morinda citrifolia L., Cell culture, Fibroblast*

