

Pengaruh ekstrak air dan etanol alpinia spp. terhadap aktivitas dan kapasitas fagositosis sel makrofag yang diinduksi bakteri staphylococcus epidermis secara in-vitro = The effect of water and etoh extracts of alpiinia spp. to in-vitro phagocytosis activity and capacity macrophage cells induced by staphylococcus epidermis

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Abstrak

Ethanol 70% and water extracts of alpinia spp. i.e. alpinia zerumbet, A. Katsumadai, A. malaccensis and A. officinarum were examined for their impact in in-vitro phagocytosis activity and capacity of mouse (*mus musculus*) peritoneum macrophage induced by staphylococcus epidermis. The extract concentrations used in this experiment were 0; 0.1; 1.0; 10; 100 ml, imboost (echinacea purpurea extract) 1000 ml was used as positive control while distilled water as negative control. The assay result showed that all of the extract were activity to promote phagocytosis activity and capacity of macrophage cells. The phagocytosis activity and capacity were increases by increasing extract concentration, and ethanol extract showed better activity than water extract. Alpina officinarum and A. Katsumadai extract reveal better phagocytosis activity and capacity than others. Activity and capacity of phagocytosis of each concentration was significantly ($p < 0,05$) different each other as well as with negative control. There is significant difference among each extracts and positive control at 1000 ml