

Sintesis interleukin 1B sel makrofag mencit yang diinduksi lipopolisakarida E. coli dan minyak atsiri kencur (*kaempferia galanga* L.) in vitro

Deskripsi Lengkap: <https://lib.ui.ac.id/detail?id=20429103&lokasi=lokal>

Abstrak

The purpose of this study was to evaluate the effectiveness of the essential oil of *Kaempferia galangal* as an anti-inflammatory agent, by evaluating its effect on interleukin 1B (IL-1B ???), produced by lipopolysaccharide (LPS) *E. coli* stimulated macrophages. Macrophage cells were stimulated with LPS *E. coli* and essential oil of *Kaempferia galangal* at concentrations of 3 ul/ml, 1.5 ul/ml, 0.75 ul/ml and 0.25 ul/ml. All of the treatment groups were incubated at 37°C in an atmosphere containing 5% CO₂ for 24 hours. The concentrations of IL-1B supernatant were determined by using an enzyme-linked immunosorbent assay kit. Statistical analysis using ANOVA showed significant differences between the treatment groups ($p < 0.05$). This study indicates that the essential oil of *Kaempferia galangal* suppressed IL-1B produced by LPS *E. coli* stimulated macrophage cells.