

## Efektifitas minyak atsiri lengkuas terhadap produksi nitrit oksida makrofag mencit (RAW 264,7) yang diinduksi LPS E. coli in vitro

Regina TC. Tandelilin, author

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### Abstrak

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Based on the content of the galangal's essential oil which can be used as antimicroorganism, analgesic, and antiseptic characterized with inhibiting and destructing microorganism life process, it is predicted that there is a possibility of essential oil can be used for anti-inflammatory agent. Nitric-oxide (NO) is an unstable gas produced by cell such as macrophage and has the function as antimicroorganism. The aim of this study was to investigate whether essential oil of galangal components has an effect to the macrophage NO production, which stimulated by LPS E. coli.

The both curative and preventive analysis using ANOVA showed that the NO productions differences were significant ( $p < 0,01$ ). This study showed that the NO levels produced by murine macrophages induced by LPS E. coli were suppressed by essential oil in a dose dependent fashion, suggesting anti-inflammatory activities. Curatively, increased doses of the essential oil resulted in increased its anti-inflammatory functions. Five micro liter of the essential oil was preventively the most concentration as anti inflammation.