

## The Effect of Temulawak Extract (*Curcuma Xanthorrhiza* Roxb) to The Appetite Off Male Albino Rats Using Leptin Test

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### ABSTRACT

A study had been carried out to study the effect of extract temulawak (*Curcuma xanthorrhiza* Roxb.) rhizomes to body weight, appetite and leptin serum level of wistar strain albino rats, age  $\pm$  3 months with 150-200g of body weight. Some 15 rats were randomly divided into 5 groups. The first group (K) was used as a negative control and only given PGA 3% suspension as the vehicle, and the leptin serum level of negative control group were measured a day before 14 days of extract administration. The second and three group (E1, E2, E3) was given a suspension of temulawak rhizomes of n-hexane extract, ethyl acetate extract and ethanol 96% extract with 0.5 g/kg of body weight of dose. The last group as a positive control was given cyproheptadine suspension with dose 0.36 mg/kg of body weight. All of them were given orally by volume 1 ml/100 g of rat weight. During 14 days of research and extract administration, body weight measured ones in two days and the amount of food which represent the appetite was measured everyday. The leptin serum level was measured on day 15 after the extract administration. Statistical computation by Anova (p0.05) and HSD (High Significancy Difference) showed that the n-hexane, ethyl acetate and ethanol 96% extract of temulawak did not increase the rat body weight and leptin serum level. But the ethano! 96% extract of temulawak increased the eppetite as indicated by the amount of food intake.

*Keyword:* body weight; appetite; leptin test; temulawak (*Curcuma xanthorrhiza* Roxb.), male albino rats