

**THE EFFECTS OF GREEN TEA LEAVES EXTRACT (*Camellia sinensis*)
AS NEPHROPROTECTOR ON MICE (*Mus musculus*) THAT INDUCED
BY MERCURY CHLORIDE**

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ABSTRACT

This research aimed to evaluate of the effect of green tea leaves extract (*Camellia sinensis*) as nephroprotector on mice (*Mus musculus*) that induced by mercury chloride. Twenty five mice were divided into five groups with different treatments for 20 days. The treatment consist of negative control (CMC Na 0.5% solution + aquadest), positive control (CMC Na 0.5% solution + 8 mg/kg bw of mercuric chloride), treatment 1, 2 and 3 (200, 400, and 800 mg/kg bw of green tea leaves extract respectively + 8 mg/kg bw of mercuric chloride). The histopathological changes of kidney were examined in this research are hydropic degeneration of tubules, tubules necrosis and tubules cast. Scoring data was analysed by Kruskal Wallis and continued with Mann-Whitney test to see the significant difference between all treatment. Analyzed result is there are a significant difference between negative control and positive control that indicate mercury chloride gave a histopathology changed of tubules and treatment 3 (800 mg/kg bw) gave a best protection for histopathology changed of tubules. The conclusion is green tea leaves extract could protect mice kidney from the damage effect of mercuric chloride.

Key words: Green Tea, Mercuric Chloride, Mice, Kidney, Nephroprotector