

**POTENTIAL PROTECTION OF TOMATO PASTE (*Lycopersicon esculantum*)
AGAINST KIDNEY HISTOPATHOLOGIC PICTURE OF MICE (*Mus
musculus*) EXPOSED TO BORAX**

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ABSTRACT

This research was aimed to evaluate the potential protection of tomato paste (*Lycopersicon esculatum*) against kidney histopathologic picture of mice (*Mus musculus*) exposed to borax. Twenty-four male mice (*Mus musculus*) 60-90 days old with average weight of 20 g is used. These animals were divided into six groups (P0, P1, P2, P3, P4, and P5). P0 treated with sterile aquadest of 0.1 ml / 20g Bw / day, P1 is treated with borax 7.5 mg / 20g Bw / day, P2 is treated with tomato paste 0,3 g / 20g Bw / day, P3 is treated with tomato paste 0 , 15 g / 20g Bw / day and borax 7.5 mg / 20g Bw / day, P4 is treated with tomato paste 0,3 g / 20g Bw / day and borax 7.5 mg / 20g Bw / day, and P5 treated with tomato paste 0.45 g / 20g Bw / day and borax 7.5 mg / 20g Bw / day. This research has been conducted for 14 days. Data were compared using non-parametric test of *Kruskal-Wallis* and showed that among the treatment group contained significant effect ($p < 0.05$), then continued with *Man-Whitney* test using SPSS 20.0 for windows. The results showed that the tomato paste 0.45 g / BB 20g daily can reduce the degree of kidney damage in mice exposed to borax significantly ($p < 0.01$).

Key words : tomato paste, borax, kidney.