

**THE EFFECT OF GIVING BORAX TO  
LIVER HISTOPATHOLOGY ON  
RATS (*Rattus norvegicus*)**

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**ABSTRACT**

The purpose of this study was to evaluate the changes of liver histopathology after giving borax on *wistar* rats using different dose. The research has been done on February, 6<sup>th</sup> 2012-March, 8<sup>th</sup> 2012 at Mulyorejo Utara street number 51A Surabaya and Faculty of Veterinary Medicine, Airlangga University. 20 male rats (*Rattus norvegicus* strain *wistar*) aged 45 days with BW 100 g were used. The rats divided into five treatments; rats in one treatments was only given sterile aquadest 0,5 ml/rats/day per oral, second treatment was given with borax 26 mg/rats/day per oral, third treatments was given with borax 52 mg/rats/day per oral, fourth treatments was given with borax 78 mg/rats/day per oral and the last treatmens was given with higher dose of borax was 104 mg/rats/day per oral. The data were compared using ANOVA test (*Analisis of variance*) and *Duncan's multiple range test*. Statistical comparisons were performed using SPSS 18.0 for windows. This research showed that borax failed to caused congestion on liver histopathology on rats but borax caused degeneration and necrosis on liver histopathology.

**Key words** : borax, natrium tetraborat dekahidrat, liver histopathology.