

## **ABSTRACT**

### ***THE EFFECT OF THE ETHANOL EXTRACT OF BANANA PEEL (*Musa paradisiaca*) ON GLUCOSE LEVELS IN THE RAT STRAIN (*Sprague dawley*) INDUCED ALLOXAN***

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Diabetes mellitus is a metabolic disease with characteristic hyperglycemia that occurs due to abnormal insulin secretion, insulin act or both of them, which is mostly found in Indonesia. This study was conducted to determine the effectiveness of ambon banana (*musa paradisiaca*) peel extract on blood glucose levels. The results are expected to maximize waste banana peels, become economically lowering diabetes. This study was conducted from October till November 2013 in Biochemistry, Physiology Laboratory Faculty of Medicine, Chemical Laboratory Faculty of Mathematics and Natural Science Lampung University and Duta Medica Laboratory. This study uses 27 male rats strain (*Sprague dawley*). K1 group (control, standard diet), K2 group (standard diet plus alloxan without the continued gift of the ethanol extract of banana peel), and K3 group (standard diet plus alloxan with continued banana peel extract). Normality test conducted by Shapiro-wilk ( $p>0.05$ ). Data were analyzed using One-way ANNOVA. The result of glucose levels are K1 ( $95.00\pm 6.042$ ), K2

(234.00±37.237), and K3 (114.00±12.237). Based on these result it can be concluded that the ethanol extract of banana peel has effects on glucose white male rats Sprague dawley strain.

Keywords: Alloxan, banana peel (*Musa paradisiaca*), ethanol, rat strain (Sprague dawley).