

EVEKTIFITAS PREBIOTIK SEBAGAI ANTI ALERGI PADA MENCIT YANG  
DISENSITILASI OVALBUMIN

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MOLECULAR IMMUNOLOGY

2007

**ABSTRACT**

The purpose of this research was to measure effectivity probiotic for inhibit and decreasing amount of IgE and increasing amount of IgG2a. 18 male mice age 12-14 weeks was divided into three groups. Each group filled with 6 mice. Group A was given ovalbumin and probiotic *Lactobacillus rhamnosus GG* (LGG), group B was given ovalbumin and probiotic *Lactobacillus plantarum IS-10506* (LIS), group C was given ovalbumin only. The serum of sample were determined by using ELISA reader at 405 nm. Data were analyzed by MANOVA (*Multi Analysis of variant*), if there were any differences, the analyzes will be continued with Duncan test. The result from this research showed the effectivity differences of probiotic. In decreasing amount of IgE, *Lactobacillus rhamnosus GG* (LGG) had *Optical Density* (OD) that not significant ( $P>0,05$ ) with *Lactobacillus plantarum IS-10506* (LIS) and significant ( $P<0,05$ ) with placebo. At increasing amount of IgG2a, *Lactobacillus plantarum IS-10506* (LIS) had *Optical Density* (OD) that significant ( $P<0,05$ ) with *Lactobacillus rhamnosus GG* (LGG) and placebo.

**Key Word :** Probiotic *Lactobacillus rhamnosus GG*, *Lactobacillus plantarum IS-10506*, Ovalbumin, IgE, IgG2a.