

**ANTIGENECITY *Salmonella pullorum* STRAIN 11 BACTERIN AND
STRAIN AV TO RABBIT BASED ON OPTICAL
DENSITY VALUE INDIRECT-ELISA**

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ABSTRACT

The aim of this research was to know ability *Salmonella pullorum* strain 11 bacterin and *Salmonella pullorum* strain AV bacterin inside to excited humoral antibody and the difference of ability to excited humoral antibody based on optical density (OD) value that were immunized by *Salmonella pullorum* strain 11 bacterin and *Salmonella pullorum* strain AV bacterin to rabbit. This research used 5 male local rabbits (*Oryctolagus cuniculus*) that were divided into three groups. The first group (P₁) was immunized by PZ sterile as a control. The second (P₂) was immunized by *Salmonella pullorum* strain 11 bacterin. The third (P₃) was immunized by *Salmonella pullorum* strain AV bacterin. Immunization were done according to sub cutan method. There were two steps of immunization, as follow : initiation step with complete Freund's adjuvant (CFA) were added to bacterin. The second steps were booster immunization that was done two weeks after initiation, with incomplete Freund's adjuvant (IFA) added to bacterin. The booster was done four times with one weeks interval. In 7th week, all of treatment groups (P₂ and P₃) was done booster with *Salmonella pullorum* from district. Immunization were done according to intra muscular method. Serum was taken every week and it was done indirect-ELISA test. The result of ELISA formed as optical density value than were analysed with Anova Factorial test and continued with Duncan test. The result of the research statistically indicate that there was significant difference ($p < 0,05$) among P₂, P₁ and P₃ in humoral antibody response. Different immunization of strain *Salmonella pullorum* will be influence antibody in OD value. Optimal OD value was reached in 8th week that is 0,678. The best strain *Salmonella pullorum* to make antibody is *Salmonella pullorum* strain AV.

Key words : antigen, *Salmonella pullorum* bacterin, optical density value, indirect-ELISA.