THE EFFECT INJECTION OF PROLACTIN ISOLATE OF DUCK IN MOULTING PHASE ON THE APPEARANCE OF ANTI PROLACTIN POLYCLONAL ANTIBODY IN GOAT

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ABSTRACT

An experiment was conducted to produce anti prolactin polyclonal antibody and get the highest optical density (OD) result after injection isolate prolactin goat. Raising anti prolactin polyclonal antibody used six male local goats, five male local goats injected with 275 µg/ml isolate prolactin in Complete Freund’s Adjuvant (CFA) and one male local goat injected with PBS as a control. The first booster (repeat injection) had done with 275 µg/ml isolate prolactin in Incomplete Freund’s Adjuvant on the 12th days. One day before the first injection and every week after the first booster until the 13th booster (the last booster) did bleed two times. ELISA Indirect test was perform the appearence anti prolactin polyclonal antibody as well as the highest OD result. ANOVA test (Analysis of Variance) was apply in order to identify the difference among dose treatments then continue using Honestly Significant Difference test (5 %). These results anti prolactin polyclonal antibody was appear at first bleeding and the highest OD antibody polyclonal anti prolactin in the 17th bleeding (1,00467 ± 0,47112). The conclusion strongly indicated anti prolactin polyclonal antibody for duck could be produced from the goat with OD (1,00467 ± 0,47112).

Key words : Duck, goat, moulting, prolactin, polyclonal antibody.