PROGESTERONE PROFILE OF LUTEINIZING HORMONE (LH)
INDUCED DAIRY CATTLE AFTER INSEMINATION

Desi Lailatul Hidayah Utomo

ABSTRACT

The experiment was carried out to study the effect of LH induced in dairy cattle as an effort to increase progesterone levels. Six of 12 dairy cattle were induced using LH (Chorulon®) and all of dairy cattle had Artificial Insemination (AI). 5 ml LH (Chorulon®) 1500 IU was injected intramuscularly on day 7 after estrus or artificial insemination on day 0. Blood collecting was conducted 3 times in day 0 or when artificial insemination, on day 7 and on day 21 after estrus. Then, the blood sample were centrifuged to obtain blood serum and tested using Enzyme-Linked Immunesorbent Assay (ELISA) Progesterone test to determine the levels of progesterone in the blood serum samples. On day 60, the cattle were carried out pregnancy examination by rectal palpation to detect whether pregnant or not. Based on the result, it was concluded that highest blood progesterone levels in pregnant dairy cattle was found on control group and non pregnant dairy cattle was found on treatment group. In conclusion the admission of LH hormone (Chorulon®) 1500 IU was injected intramuscularly on day 7 after estrus or after artificial insemination on day 0 increase the progesterone levels.

Key word : dairy cattle, progesterone, ELISA, LH