

**PRODUCTION OF ETTAWA CROSSBREED GOAT *EARLY PREGNANCY FACTOR* (EPF) POLYCLONAL ANTIBODY AFTER IMMUNIZATION OF FRIESIAN HOLSTEIN (FH) OX COTYLEDON EPF**

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**ABSTRACT**

The aim of the present study was to investigate goat EPF polyclonal antibody of induction of isolated Friesian Holstein ox cotyledon. EPF through fourteen weeks incubation *in vivo* production. Induction of isolated Friesian Holstein ox cotyledon EPF was applied in one males Ettawa crossbreed goat. Initially, goat were sub cutaneously injected active immunization with isolated EPF in Completed Freund'S Adjuvant (CFA). Two weeks post first immunization was performed *booster* with isolated EPF in an Incomplete Freund'S Adjuvant (IFA). Further, the next *booster* was done every three week. Before *booster*, was always executed taking serum every week. Then, EPF polyclonal antibody of goat was measured by Elisa indirect. The results of ELISA showed increasing of goat antibody titers. The conclusion of this research proved that isolated Friesian Holstein ox cotyledon EPF can induced humoral antibody response. Optimal titer value was reached in 3<sup>rd</sup> booster that is 245,142 µg/ml.

Keyword: EPF, Ettawa crossbreed goat, polyclonal antibody.