

THE EFFECT OF LAMBS DIET SUPPLEMENTATION WITH COW COLOSTRUM AND COW COLOSTRUM PROTEIN CONCENTRATE ON SERUM IgG LEVEL AND BODY GAINS

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Abstract. The study on availability of cow colostrum (C) and cow colostrum protein concentrate (CC) derived from membrane filtration was conducted on Olkuska breed lambs. The lambs were assigned to 4 groups receiving IgG addition in cow colostrum or colostrum concentrate: group I – control, group II – 7.49g IgG in 150 ml C, group III – 7.09 IgG in 125 ml CC, and group IV – 14.18 IgG in 250 ml CC. The lambs were fed directly after the birth. IgG concentration was significantly higher on the 2nd and 12th days of lambs life in the control group compared to group IV supplemented with an increased concentrate dose. The results point that an addition of cow colostrum concentrate obtained as a result of membrane filtration may strengthen lambs immune system, which may be of a special significance especially in case of multiple pregnancies.

Keywords: immunoglobulins, cow colostrum, microfiltration, lambs