Anticoccidial Activity of Vitis venifera Extract on Oocysts of Different Eimeria Species of Chicken

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Abstract : In the current experiment, in vitro anticoccidial potential of Vitis venifera (grape seed) extract was evaluated. For this purpose, an in vitro sporulation inhibition assay was used. Collected oocysts of different Eimeria species of chicken were exposed to six different concentrations (w/v) of Vitis venifera extract (TAE) in 10% dimethylsulphoxide solution (DMSO). Dimethylsulphoxide (DMSO) and potassium dichromate solution ($K_2Cr_2O_7$) served as control groups. Results of the study revealed that Vitis venifera extract (TAE) showed an inhibitory effect on sporulation (%) and damage (%) of Eimeria oocysts in a dose-dependent manner as compared to both control groups. Vitis venifera extract also damaged the morphology of oocysts in terms of shape, size, and number of sporocysts.

Keywords: Vitis venifera, in vitro, Eimeria, oocysts

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