

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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