THE EFFICACIES OF BANANA STEM EXTRACT AS A CANDIDATE OF COCCIDIOSTAT AGAINST RABBIT EIMERIA STIEDAIO OCYSTS: AN IN VITRO ANALYSIS

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Abstract	The objective of this research was to investigate the ability of banana stem (Musa paradisiaca) to inhibitsporulation of Eimeria stiedaioocystsderived from rabbit by in vitroanalysis. Analyze the active substance proximate analysis and active substances in this research were performed too. Banana stem extract were used in this experiment and sulfaquinoxalline(Coxy \tilde{A} , \hat{A} ®) was run as acontrol. The Eimeria stiedaioocystswere incubated prior the presence of \tilde{A} , \hat{A} different concentration from banana stem extract \tilde{A} , \hat{A} 0%, 1%, 2%, 4%, 8% for 1, 2 and 3 daysat 26 \tilde{A} , \hat{A}° C. In addition, Factorial patterned Completely Randomized Design (CRD) with five replicates wasapplied on the experiment. Result analysis was performed by using Analysis of Variance and following by Honestly Significant Difference (HSD) post hoc test. Here, we identified that banana stem extract contain different type of active substance such as tannin, saponin, and alkaloid. Banana stem extract significantly affected the oocysts (P<0.01), and transformed oocysts (P<0.01). In conclusion banana stem could inhibit the development of Eimeria stiedaioocysts on in vitroexperiment. HSD test showed that the optimum potential efficacy of banana stem toinhibit sporulation was at 4% and 8% concentration during three days incubation.
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