

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

Title	THE EFFICACIES OF BANANA STEM EXTRACT AS A CANDIDATE OF COCCIDIOSTAT AGAINST RABBIT EIMERIA STIEDAIO OCYSTS: AN IN VITRO ANALYSIS
Author Order	of
Accreditation	
Abstract	<p>The objective of this research was to investigate the ability of banana stem (<i>Musa paradisiaca</i>) to inhibit sporulation of <i>Eimeria stiedaii</i> oocysts derived from rabbit by in vitro analysis. Analyze the active substance proximate analysis and active substances in this research were performed too. Banana stem extract were used in this experiment and sulfaquinoxaline (Coxy \AA, \AA) was run as a control. The <i>Eimeria stiedaii</i> oocysts were incubated prior the presence of \AA, \AA different concentration from banana stem extract \AA, \AA 0%, 1%, 2%, 4%, 8% for 1, 2 and 3 days at 26 \AA, \AA $^{\circ}\text{C}$. In addition, Factorial patterned Completely Randomized Design (CRD) with five replicates was applied 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 sporulation included the amount of sporulated oocysts ($P < 0.01$), unsporulated oocysts ($P < 0.01$), and transformed oocysts ($P < 0.01$). In conclusion banana stem could inhibit the development of <i>Eimeria stiedaii</i> oocysts on in vitro experiment. HSD test showed that the optimum potential efficacy of banana stem to inhibit sporulation was at 4% and 8% concentration during three days incubation.</p>
Publisher Name	Universitas Jenderal Soedirman, Faculty of Animal Science, Purwokerto-Indonesia
Publish Date	2015-09-11
Publish Year	2015
Doi	DOI: 10.20884/1.anprod.2015.17.3.503
Citation	1
Source	ANIMAL PRODUCTION
Source Issue	Vol 17, No 3 (2015): September
Source Page	161-168
Url	http://animalproduction.net/index.php/JAP/article/view/503
Author	DIANA INDRASANTI, M.Biotech