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Antidiarrhea Effect of T-DABUTO from Madinella speciosa L. on Male Balb-C Mice Induced Oleum Ricini

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Abstract : T-Dabuto is a tea made from leaves and fruits of parijoto (Madinella speciosa L.), which flavonoid, saponin and tanin contained in that tea are reported have diarrhea-caused antibacterial activity. However, the in vivo antidiarrhea effect have not clear yet. This study was conducted to determine the effect of T-DABUTO to faecal characteristics in male Balb/C-mice induced oleum ricini. Experimental research with post-test only control group design was conducted using 35 young male mice strain Balb-C which was divided into 5 groups. All groups were induced by 0.7 ml/ head of oleum ricini and 3 hours later followed by aquadest for first group, while the 2nd, 3rd, 4th and 5th group were treated by T-DABUTO solution with 75 mg/kgBW, 150 mg/kgBW, 300 mg/kgBW, and 600 mg/kgBW respectively as 0.7 ml/ head/ 0.5 hous for 8 hours. Feces collected were used to identify the frequency, absorbtion diameter and fecal weight. T-DABUTO on dose 75 mg/kg BW has the highest antidiarrhea activity which the mean of frequency defecation, water feacal absorbsion and feacal weight were 1.71±0.95 times, 0.38±0.49 mm, 0.43±0.28 mg, respectively. The T-DABUTO treatment did not influence the body weight of diarrheal mice. The T-DABUTO is potential as one of natural diarrhea tratment, especially in children.

Keywords : diarrhea, flavonid, tannin, saponin
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