ABSTRACT

Antacids And Antiflatulence In Vitro Activities Of “Cengkeh” (Eugenia caryophyllata Thunberg) Leaf Ethanol Extract Syrup

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This study aims to prove the neutral acid and antiflatulence activity of cengkeh leaf which has been formulated in antacid syrup form preparation using in vitro artificial gastric acid neutralization test of Wu modification method, and antiflatulence foam removal test based on Rezak in vitro method.

The result of antacid activities group test of Formula 1, 2 and 3 of cengkeh leaf ethanol extract syrup with concentration 1%, 2% and 3% were given positive acid neutralization activities with average duration of 80,14 ± 3,63 minutes for formula 1; 104,51 ± 6,08 minutes for formula 2 and 140,78 ± 5,33 minutes for formula 3. The activities result of antiflatulence group test of formula 1, 2 and 3 of cengkeh leaf ethanol extract syrup with concentration 1%, 2% and 3% shows foam removing activities with the rest of the foam level 0,90 ± 0,0 cm for formula 1, 1,2 ± 0,3 cm for formula 2 and 1,2 ± 0,3 for formula 3. From the One Way Anova and Post Hoc Anova (Dunnet). The p value of the whole formula for antacids and antiflatulence activities is 0,0000 (p<0,05), which shows a significant difference between the dosage of syrup cengkeh leaf ethanol extract compared to the negative control. So the both doses of formula 1,2 and 3 can be stated have antacid and antiflatulence activity significantly.

Keywords : Eugenia caryophyllata Thunberg, Antacids, Antiflatulence, In vitro