In Vivo Antitussive Activity Evaluation Of Mixed Ethanol Extracts Citrus aurantifolia Leaves, Zingiber officinale var rubrum Rhizomes, And Mentha arvensisL Herbs.

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Background Citrus aurantifolia Leaves, Zingiber officinale var rubrum Rhizomes, and Mentha arvensisL Herbs have been empirically used as antitussive herbal medicine in which have active ingredients as antitussive which are: shogaols, naringin, and menthol.

Objective: This study aimed to test the antitussive effect of the mixed ethanol extracts (Citrus aurantifolia Leaves, Zingiber officinale var rubrum Rhizomes, and Mentha arvensisL) to prove their empirical evidence in different proportion.

Material and method The antitussive activity of the mixed ethanol extracts in difference ratio was evaluated using a classical model that induced by ammonium hydroxide liquor in mice.

Results The antitussive activity results showed that formula 1, 3, and 4 inhibited the cough statistically significantly activity (7.2%, 20.7% and 22.4%) as compared to control group. The statistically significantly activity is shown in ANOVA one way and post-hoc test analysis.

Conclusion The antitussive activity study showed that the better result is shown by formula 1, 3, and 4 with an inhibiting amount of 7.2%, 20.7% and 22.4%.

Keyword : Cough, antitissive, mixed herbal, mixed extracts, Citrus aurantifolia Leaves, Zingiber officinale var rubrum Rhizomes, and Mentha arvensisL Herbs