

ABSTRACT

EFFECT OF *Justicia gendarussa*, *Pimpinella pruatjan*, and *Pangium edule* EXTRACTS ON ISOLATED GASTRIC SMOOTH MUSCLE OF THE FROG

The aim of this research was to find whether there is relaxation effect on smooth muscle from the extracts of *Pangium edule*, *Pimpinella pruatjan* and *Justicia gendarussa* by using Harvard apparatus electric kymograph. This research used three different groups concentration of each extracts 10 ppm, 50 ppm and 100 ppm. Acetylcholine (1 ppm), adrenaline (1 ppm) and papaverine (1 ppm) were used as positive controls. Extracts and drugs that had been prepared were tested on frog gastric smooth muscle isolated immediately from the body of a frog, then soaked with thyrode and bubbled by oxygen. Then data were analyzed by comparing peak contraction before and after treatment with ANOVA. Results, in 70% ethanol extract of *Justicia gendarussa* Burm.f. (114.85 ppm) obtained 79.1% relaxation, in methanol extract of *Pimpinella pruatjan* (101.98 ppm) obtained 72.1% relaxation and in methanol extract *Pangium edule* (103.96 ppm) obtained 10.3% relaxation.

Keywords : *Pangium edule*, *Pimpinella pruatjan*, *Justicia gendarussa*, extract, relaxation

