

ABSTRACT

ANTI BACTERIAL TEST OF PAPAYA SEED EXTRACT (*Carica papaya* L.) AGAINST *Pseudomonas aeruginosa* WITH MACERATION METHOD

ANDRI AGUSTINA

Papaya contains alkaloids, saponins, tannins, papain and flavonoids. The aims of this research was to determine the potential of papaya seed extract extracted using the maceration method as an antibacterial against *Pseudomonas aeruginosa*. The papaya seed extraction process is carried out using the maceration method and using 96% ethanol as a solvent. The papaya seed maceration process is carried out for 2 days. The extract obtained was 43.25 grams. The concentrations used in this study were 25%, 50%, 75%, 100% and dimethylsulfoxide (DMSO) as a negative control. The average diameter of the inhibition zone against *Pseudomonas aeruginosa* from 100% papaya (*Carica papaya* L.) seed extract concentration was 2.62 mm (weak category) and 75% was 1.22 mm (weak category). At a concentration of 50% and 25% does not form a clear zone. Based on the research that has been carried out, it can be concluded that papaya seed extract (*Carica papaya* L.) which is extracted using the maceration method with 96% ethanol solvent can inhibit the growth of *Pseudomonas aeruginosa* bacteria.

Keywords :Papaya Seed Extract, *Pseudomonas aeruginosa*.