

## **ABSTRACT**

### **ANTIBACTERIAL ACTIVITY OF PAPAYA SEED EXTRACT (*Carica papaya* L.) AGAINST *Bacillus subtilis* USING PERCOLATOR METHOD**

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*The purpose of this study was to determine the effect of papaya seed extract (*Carica papaya* L.) extracted using the percolation method in inhibiting *Bacillus subtilis*. In this research, papaya seeds (*Carica papaya* L.) were extracted using the percolation method with 96% ethanol solvent. Inhibition testing was carried out using the paper disc diffusion method. This method uses 4 concentrations, namely 25%, 50%, 75% and 100% and 10% DMSO as a negative control for *Bacillus subtilis* bacteria. The results of this study show the antibacterial activity of papaya seed extract (*Carica papaya* L.) against *Bacillus subtilis* bacteria at a concentration of 25% an average diameter of 0.22 mm; 50% concentration of 0.62 mm; 75% concentration of 1.6 mm; 100% concentration of 29.4 mm; and the negative control produces 0 mm. Papaya seed extract 25%, 50%, 75%, 100% is able to inhibit *Bacillus subtilis* bacteria with weak inhibitory ability.*

**Keywords:** *antibacterial, papaya seeds, Bacillus subtilis*