ABSTRACT

Anti Bacterial Potential Test Of *Cyperus rotundus* Extract With Distillation Method Against *Bacillus subtilis* Bacteria

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Cyperus rotundus is parasit plant that has many benefits, is trussed as antiobitics. *Cyperus rotundus* tubers contain alkaloid compounds, saponins, tannins and flavonoids. It have inhibite the growth of *Bacillus subtilis*. Processing of *Cyperus rotundus* tubers as antibioitic by taking the extract using the distillation method with water solvent. Distillation of the extraction methods that are used using distillation tools using temperature differences. *Cyperus rotundus* distillation is repeated 8 times and produces 30 mL of destilate water. The destilate water that comes out is then made different test concentrations 50%, 75% and 100%. Bacterial inhibitory power test method using disc paper. Disc paper soaked at each concentration of extract for 15 minutes, then dried for 5 minutes. Method of making bacteria using the spread plate method, disc paper that already contains the concentration of extract is placed on the media, then incubated for 24 hours. The bacterial growth medium will form a clear zone, the clear zone measured in diameter using a vernier clipper then compared to the category of the inhibitory zone. The average diameter zone of inhibition against *Bacillus subtilis* *Cyperus rotundus* tuber of 100% by 3.25mm (weak category), 75% by 2.22 mm (weak category), and 50% by 1.67 mm (weak category).

Keywords : *Cyperus rotundus*, *Bacillus subtilis*, Distillation, Resistance Zone Category