

## INHIBITION OF BAY LEAF (*Syzygium polyanthum* (Wight) Walp. On Bacteri *Salmonella thypi*

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### ABSTRAC

Bay leaf (*Syzygium polyanthum* (Wight.) Walp.) Traditional medical plants are efficacious as antibacterial. Bay leaf extract contains essential oils, alkaloids, tannins, and flavonoids, known to able inhibit the growth of pathogenic bacteria that causes born poisoning such as *Salmonella thypi* bacteria. The objective of the research was to know the antibacterial power of bay leaf extract to *Salmonella thypi* bacteria. This research used experimental research design with post test control group design only method. The subjects of the study were salam leaf extract obtained by extraction with soxletation method. The object of this research is the diameter of inhibition zone of *Salmonella thypi* bacteria growth. Extracts were tested for antibacterial power against *Salmonella thypi* by using the diffusion method of wells with concentrations of 100%, 75%, 50% and 25%. The results showed that leaf extract had antibacterial power against *salmonella thypi* with inhibitory zone width based on concentrations of 100%, 75%, 50%, and 25% respectively 21, 17 mm, 19.33 mm, 18, 16 mm, 11 , 6 mm. The higher concentration of leaf extract of the tested salam then wider the zone of inhibition.

**Keyword :** Bay leaf extract (*Sygyzium polyanthum*) – Inhibition – *Salmonella thypi*