

ANTIBACTERIAL ACTIVITY OF *Syngonium
podatum* CULTURES

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ANTIBACTERIAL ACIVITY OF *Striga asiatica* CULTURES.

By

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The requirement for the degree of
Bachelor of Science (Biological Sciences)

**Department of Biological Sciences
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**JABATAN SAINS BIOLOGI
FAKULTI SAINS DAN TEKNOLOGI
UNIVERSITI MALAYSIA TERENGGANU**

PENGAKUAN DAN PENGESAHAN LAPORAN PITA I DAN II

Adalah ini diakui dan disahkan bahawa laporan penyelidikan bertajuk:

Antibacteria Activity of *Striga asiatica* cultures.

Oleh: Adli bin Mahamad Ishak No. Matrik: UK2088

telah diperiksa dan semua pembetulan yang disarankan telah dilakukan. Laporan ini dikemukakan kepada Jabatan Sains Biologi sebagai memenuhi sebahagian daripada keperluan memperoleh ijazah Sarjana Muda Sains (Sains Biologi), Fakulti Sains dan Teknologi, Universiti Malaysia Terengganu.

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DECLARATION

I hereby declare that this thesis entitled **Antibacteria Activity of *Striga asiatica* Cultures** is the results of my own research except as cited in the references.

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ABSTRACT

Finding the new sources of antibacteria is crucial in pharmaceutical field. In this study, the potential of *Striga asiatica* as antibacterial was investigated. Various age of in vitro culture of *S. asiatica* or witchweed was used as the research material. The methanol extracts of *S. asiatica* were tested against *Streptococcus agalactiae*, *Bacillus cereus*, *Staphylococcus aureus* and *Escherichia coli* using disk diffusion method. The crude extract shown antibacterial activity against all tested strains except *E. coli*. The MIC of *S. asiatica* extract was 10mg/ml against *S. agalactiae*, 30mg/ml against *B. cereus* and 80mg/ml against *S. aureus*. This study revealed that the *S. asiatica* extract has a potential as antibacterial agent against selected strains of bacteria.

AKTIVITI ANTIBAKTERIA KULTUR TISU *Striga asiatica*

ABSTRAK

Penemuan sumber baru antibakteria adalah amat penting dalam bidang farmasi. Dalam kajian ini, potensi *Striga asiatica* sebagai ejen antibakteria telah di kaji. Umur kultur in vitro *S. asiatica* (jarum mas) yang berbagai telah digunakan sebagai bahan kajian. Ekstrak methanol bagi *S. asiatica* telah diuji keatas *Streptococcus agalactiae*, *Bacillus cereus*, *Staphylococcus aureus* dan *Escherichia coli* dengan menggunakan teknik penyerapan disk. Ekstrak mentah telah menunjukkan aktiviti antibakteria keatas semua jenis bakteria kecuali *E. coli*. Nilai MIC bagi ekstrak *S. asiatica* adalah 10mg/ml keatas *S. agalactiae*, 30mg/ml keatas *B. cereus* and 80mg/ml keatas *S. aureus*. Kajian ini telah mendedahkan bahawa ekstrak *S. asiatica* mempunyai potensi yang besar sebagai agen antibakteria keatas jenis bakteria yang terpilih.