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Antibacterial and Antifungal Potential of Local *Lawsonia Inermis*

Zainab Razali* and Hasnun Nita Ismail

Faculty ofApplied Science, Universiti Teknologi MARA (Perlis), 02600 Arau, Perlis, Malaysia 02600 Arau, Perlis, Malaysia; E-mail: zainab215@perlis.uitm.edu.my

Antimicrobial and antifungal are the most significant weapons in fighting infections and have greatly benefited the health-related quality of human life. In this study, antimicrobial and antifungal effects of Local *Lawsonia inermis* against bacteria isolated from human mouth and scalp fungus isolated from human head (dandruff) were investigated by using the disc diffusion method. Extraction technique of *L. inermis* using four types of solvents: methanol, ethanol, acetone and hexane. At different concentration, extractions are injected onto Muller-Hilton and Potato Dextrose Agar, respectively. The potential of *L.inermis* extract as an antibacterial and antifungal are determined by the formation of inhibition zone around the well. From the result, all *L.inermis* crude extracts using solvent ethanol showed fascinating antibacterial activity against both bacteria and scalp fungus. The 400mg/ml of extract was most effective against bacteria isolated from human mouth (16mm) whereas scalp fungus was found to be the most inhibited at 500mg/mL (20mm) compared to other treatments. This study shows the potential of our local *L.inermis* for replacement of synthetic antibacterial and antifungal agent by the use of natural extracts.

Keywords: Antimicrobial, Antifungal, Local *Lawsonia inermis*, Synthetic.