

Study on Some Dermatological Properties of Myanma Natural Cosmetic *Feronia limonia* (L.) Swingle (Thee) Bark

Phyu Phyu Zaw^{*}

Abstract

This research is concerned with the efficacy of *Feronia limonia* (L.) Swingle (Thee) bark on skin (dermatological effect). *In vitro* antimicrobial activities of pet-ether, ethanol and water extracts were tested against six different microorganisms (*Bacillus subtilis*, *Bacillus pumalis*, *Candida albicans*, *E. coli*, *Pseudomonas aeruginosa* and *Staphylococcus aureus*) by agar well diffusion methods. All extracts showed mild activity on all tested organisms. Ethanol extract was the most potent among the crude extracts. *In vivo* antistaphylococcal activities of pet-ether, ethanol and water crude extracts were evaluated by investigating the healing potential on *Staphylococcus aureus* induced excision type cutaneous wounds. It is found that all extracts took 6 days to heal wound. No significant difference on wound healing effect between different dose of 2 - 6 mg/day was observed. Control group needed 8 days to heal wound.

Key words: *Feronia limonia* (L.) Swingle, *in vitro* and *in vivo* antibacterial activity

^{*} Demonstrator, Dr., Department of Chemistry, Yangon Institute of Education