

Antimicrobial Activity from the Leaves Extracts of *Aeglemamelos*(L.) Correa

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Abstract

The natural plant products are widely used nowadays because of increasing the burden of diseases. *Aeglemamelos*(L.) Correa (Family Rutaceae) is a plant which is widely distributed throughout the world. Its leaves, barks, roots, flowers, fruits and fruit pulps have been used in Myanmar traditional system as medicine to treat various diseases. Various research proved that the different parts of *A. mamelos* plant possesses antioxidant, antiulcer, hepatoprotective, antidiabetes, antipyretic, anticancer and anti-inflammatory properties, which helps in treatment of many diseases. *A. mamelos* has been used as fresh vegetables and fruit juice. In these present study, the ethanol and aqueous extracts of leaves from *A. mamelos* were screened for antibacterial and antifungal activity against ten bacteria (*Agrobacterium tumefaciens*, *Bacillus pumilus*, *Bacillus subtilis*, *Escherichia coli*, *Pseudomonas aeruginosa*, *Pseudomonas fluorescens*, *Salmonella typhi*, *Staphylococcus aureus*, *Vibrio cholerae* and *Xanthomonas oryzae*) and two fungi (*Aspergillus flavus* and *Candida albicans*) using agar well diffusion technique. The length of inhibition zone was measured in millimeters from the edge of the well to the edge of inhibition zone, which showed antibacterial and antifungal activities. This research attempt to highlight the antimicrobial activity on various pathogenic microorganisms.

Key words: *Aeglemamelos*(L.) Correa, antimicrobial, antiulcer, hepatoprotective, ethanol and aqueous extracts, antibacterial and antifungal activities

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