

**ANTIMICROBIAL ACTIVITY AND IMMUNO-
POTENTIAL OF APATOT (*Morinda citrifolia*)**

**A Research Study
Submitted to the Faculty of the
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Cavite State University,
Indang, Cavite**

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of the Requirements for Graduation**

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ABSTRACT

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“Antimicrobial Activity and Immuno - Potential of Apatot (*Morinda citrifolia*).”

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A study entitled Antimicrobial Activity and Immuno-Potential of Apatot (*Morinda citrifolia*) was conducted at the Microbiology Research Laboratory, Cavite State University, Indang, Cavite. The general objective of the study was to determine the antimicrobial activity and immunology potential of *Morinda citrifolia*. Specifically, the study was undertaken to determine the range of microorganisms inhibited by *Morinda citrifolia* and determine the antibody production of mice when fed with extracts of *Morinda citrifolia*.

Four samples from different parts of *Morinda citrifolia* were extracted and subjected to antimicrobial assay by agar well method. Test organisms used for the assay were bacteria (*Escherichia coli*, *Klebsiella pneumoniae*, *Pseudomonas aeruginosa*, *Staphylococcus aureus*, and *Bacillus subtilis*); mold (*Aspergillus niger*) and yeast (*Candida krusei*). Extracts of *Morinda citrifolia* were inhibitory to gram-positive bacteria but not to gram-negative ones. Molds and yeasts were not inhibited as well.

Mice were fed with leaves and fruit extracts for three weeks. Titer production was determined by agglutination test. Low antibody titers were observed.

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