

AKTIVITAS ANTI-*Mycobacterium tuberculosis* CAMPURAN EKSTRAK
MENGKUDU, PEGAGAN, SAMBILOTO DAN CAMPURAN SENYAWA
SCOPOLETIN, ASIATIC ACID, ANDROGRAPHOLIDE SECARA IN VITRO
AISYAH ANIS

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ABSTRACT

Tuberculosis (TB), caused by *Mycobacterium tuberculosis* (MTB) is the most commonly notified disease and the fifth largest cause of mortality. According to WHO report, Indonesia has the fifth highest TB prevalence. Due to the fact of multidrug resistance, there is an urgent need for more potent antibiotics and other drug. Natural products have been regarded as one of the most successful strategies for creating new medicines. This research purpose is to determine the value of Minimum Inhibitory Concentration (MIC) against *Mycobacterium tuberculosis* of mixture of ethanolic extracts of *Morinda citrifolia* Linn, *Centella asiatica* (L.) Urban, *Andrographis paniculata* Ness and mixture of scopoletin, asiatic acid, andrographolide. The assay of *Mycobacterium tuberculosis* activities was done using Agar-well dillution methods to determine the value of Minimum Inhibitory Concentration (MIC). The results showed that mixture of ethanolic extract *Morinda citrifolia* Linn, *Centella asiatica* (L.) Urban, *Andrographis paniculata* Ness were found to be active against *Mycobacterium tuberculosis* with MIC 1.6×10^{-7} ppm.

Key words: *Morinda citrifolia* Linn, *Centella asiatica* (L.) Urban, *Andrographis paniculata* Ness, scopoletin, asiatic acid, andrographolide, agar-well dillution method, ethanolic extract, *Mycobacterium tuberculosis*.