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TLC Bioautography Analysis of Secang Wood Extract (*Caesalpinia sappan* L.) Against *Propionibacterium acnes* and *Staphylococcus epidermidis* Bacteria

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ABSTRACT

Secang wood (*Caesalpinia sappan* L.) is one of the plants that is widely used in traditional medicine in Indonesia. Secang wood is known to have several benefits, including its ability to treat several infectious diseases caused by bacteria. This research aims to determine the class of active compounds that have antibacterial activity against *Propionibacterium acnes* and *Staphylococcus epidermidis* using TLC Bioautography analysis. The TLC results showed that the ethanol extract of secang wood contains an alkaloid, flavonoid and phenol compounds. Bioautography TLC results show that the ethanol extract of secang wood has the potential for good antibacterial activity against the bacteria *Propionibacterium acnes* and *Staphylococcus epidermidis* with Rf values of 1: 0.92, Rf 2: 0.78, Rf 3: 0.65, Rf 4: 0.50, Rf 5: 0.38, Rf 6: 0.23 and Rf 7: 0.09 for *Propionibacterium acnes*. The values of Rf 1: 0.65, Rf 2: 0.50, Rf 3: 0.38, Rf 4: 0.23, and Rf 5: 0.09 for *Staphylococcus epidermidis*.

Keywords: *Caesalpinia sappan* L., antibacterial, *Propionibacterium acnes*, *Staphylococcus epidermidis*, TLC Bioautography.