

## ABSTRACT

### **Activity of 96% Ethanol Extract of *Syzygium Cumini* (L.) Skeels Leaves On Decreasing Uric Acid Blood Levels in Hyperuricemic Mice**

*Syzygium polyanthum* (Wight) Walpers is used in folk medicine for hyperuricemia. Based on chemotaxonomy, this study elucidated the activity of *Syzygium cumini* (L.) Skeels on decreasing uric acid blood levels in hyperuricemic mice. Phytochemical screening of 96% ethanol extract of *Syzygium cumini* (L.) Skeels leaves showed that it's contain terpenoids, steroids, and flavonoids compounds. Previous study reported that these compounds showed the ability to reduce uric acid blood level in hyperuricemic condition. Hyperuricemic condition in normal mice was obtained by inducing potassium oxonate at 350 mg/kg dose intra peritonially then 96% ethanol extract of *Syzygium cumini* (L.) Skeels leaves given by oral gavage. The results showed that 96% ethanol extract of *Syzygium cumini* (L.) Skeels leaves cause significant reduction ( $p < 0,05$ ) in the uric acid blood levels of hyperuricemic mice in a time-dependent manner. The effects of *Syzygium cumini* (L.) Skeels on blood uric acid levels in hyperuricemic mice induced by oxonate are discussed in relation to their potential application to treat gout and hyperuricemia.

Keyword : *Syzygium cumini* (L.) Skeels, uric acid, anti-hyperuricemic.