

## **ABSTRACT**

### **TOXICITY TEST OF MENTHA LEAF EXTRACT (*Mentha arvensis*) USING METHANOL SOLVENT WITH *BRINE SHRIMP LETHALITY TEST* (BSLT)**

#### **METHODS**

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This study aims to determine the toxicity of mint leaf extract (*Mentha arvensis*) using the Brine Shrimp Lethality Test (BSLT) methods. The extract was made by maceration using methanol as a solvent. Toxicity test was carried out using 48 hour old *Artemia salina* Leach shrimp larvae. The toxic effect of the extract was identified by the percentage of shrimp larvae mortality using probit analysis (LC<sub>50</sub>). The results of this study indicate that the LC<sub>50</sub> value of methanolic extract of mentha leaves is 9.2733 ppm (toxic) and it could be developed into an anticancer drug.

*Keywords* : *Metha arvensis*, toxicity test, *Artemia salina* Leach, BSLT, LC<sub>50</sub>