## ABSTRACT

## Biotransformation of Nipagin by Cell Suspension Cultures of Solanum mammosum L.

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Biotransformation using plant tissue culture can change the structure of a compounds into it's glycoside. The objective of this research was to study the ability of cell suspension of  $Solanum\ mammosum\ L$ . to transform nipagin. Based on toxicity test, the highest concentration tolerated by cell suspension culture of  $Solanum\ mammosum\ was\ 250\ ppm$ . Thin Layer Chromatography (TLC) analysis of medium and biomasses showed that biotransformation products was accumulated in the biomasses. The result of TLC and TLC-Scanner showed that biotransformation product has lower  $R_f$  value than nipagin standard and profile spectrum that was similar to nipagin.

Keywords : nipagin, Suspension Culture, Solanum mammosum L. Biotransformation.



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