

## ABSTRACT

### **Biotransformation of Propylparaben (Nipazol) 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 its glycoside. The objective of this research was to study the ability of cell suspension of *Solanum mammosum* L. to transform propylparaben. Based on toxicity test, the highest propylparaben concentration tolerated by cell suspension culture of *Solanum mammosum* was 100 ppm. The result of TLC and TLC-Scanner showed that there was no biotransformation occurred in the cell, because the compounds has a similar Rf value compared to Rf of propylparaben's standard and control extract. The TLC-Densitometer analysis also showed that the product has similarly UV spectrum with propylparaben UV spectrum.

Keyword : Propylparaben, Suspension Culture, *Solanum mammosum* L., Biotransformation.

