UJI SITOTOKSISITAS EKSTRAK ETANOL DAUN SIRIH MERAH (*Piper crocatum*) TERHADAP SEL FIBROBLAS

(CYTOTOXICITY TEST OF ETHANOLIC EXTRACT OF RED BETEL LEAF (PIPER CROCATUM) TOWARD FIBROBLAST CELLS)

ABSTRACT

Background. *Traditional herbs are very popular in the community lately as a natural substance that is considered more safe, inexpensive and easy to obtain. Piper crocatum is one of the Indonesian plants which is traditionally used for health treatment. It is known to have anti-inflammatory and wound healing effect. The using Piper crocatum as one of the dental health products should have not toxic, and have biocompatibilty properties.* ***Purpose.*** *To determine the cytotoxicity of the Piper crocatum with different concentration toward fibroblast cells.* ***Method.*** *The method type used is experimental research laboratories using the post-test only control group design. Number of samples were 7 samples of each 12,5%, 25%, 50%, and 100%. The citotoxicity test by using enzymatic assay of MTT* [3-(4,5-*dimethyltiazol*-2-yl)-2,5-*difeniltetrazolium bromide*], *against fibroblast cell (BHK-21). The density of optic formazan indicated the number of living cell.* ***Results.*** *The result showed that the percentage of living cell amount of 12,5%, 25%, 50% and 100% concentration were 63,47%, 52,52%, 56,21% and 100%.* ***Conclusion.*** *Piper crocatum is non toxic.*

Key words : *Piper crocatum, cytotoxicity, MTT assay*