CYTOTOXICITY EFFECT OF CURCUMA AERUGINOSA EXTRACT ON FIBROBLAST WITH MTT ASSAY METHOD

Abstrak :

The aim of this study was to find cytotoxicity effect of Curcuma aeruginosa extract on fibroblast with MTT assay method. This study used experimental laboratory with post test only control group design. Fibroblast cell lines culture divided into ten groups with four replication in each group. The positif control group was the group contained fibroblas cells in RPMI media. The negatif control group was the group contained media without cells. There were eight treatment groups given Curcuma aeruginosa extract in different concentration (1 ppm, 2 ppm, 2.5 ppm, 5 ppm, 10 ppm, 15 ppm, 20 ppm, 25 ppm). After exposure of the extract, the cells were incubated for twenty hours. The MTT reagen was given on the cells and then was incubated for four hours. After that the optic density was read with microplate reader in 630 wavelength. The result showed that the percentage of viable cells was more fifty percent in treatments groups. The Anova analysis showed that there was significantly decrease (p<0,05) of percentage of viable cell between positif control group and treatment groups. The conclusion was the Curcuma aeruginosa extract did not show cytotoxicity effect on fibroblast cells but the percentage of viable cell was decrease significantly in treatment groups.

Keyword :

Curcuma aeruginosa extract, fibroblast, cytotoxicity, MTT assay

Daftar Pustaka :

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