

ABSTRACT

An in vitro experimental study has been done to know the effect of various concentrations of pure commercial tannins on the cell number of *Salmonella typhi* culture, its Minimum Inhibitory Concentration, its Minimum Bactericidal Concentration, and its effectiveness compare to chloramphenicol.

This in vitro study was done by tube dilution method using completely randomized design.

The finding showed that tannins highly significant ($p < 0.000$) affect to the cell number of *Salmonella typhi* tested giving Minimum Inhibitory Concentration and Minimum Bactericidal Concentration as many as $32.0 \mu\text{g/ml}$ and $62.5 \mu\text{g/ml}$, respectively.

As Minimum Inhibitory Concentration of chloramphenicol is $16.0 \mu\text{g/ml}$ tannins could be used as an alternative substance against *Salmonella typhi*. And based on the bacterial cell count tannins might be better than chloramphenicol.

Keywords : Tannins – *Salmonella typhi* - Chloramphenicol