

**PHYTOCHEMICAL SCREENING AND  
ANTIMICROBIAL ACTIVITY OF *Solanum lycopersicum***

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## ABSTRACT

### PHYTOCHEMICAL SCREENING AND ANTIMICROBIAL ACTIVITY OF *Solanum lycopersicum*

*Solanum lycopersicum* also known as tomato are red-cherry species that vary based on their shape, colour intensity and how this species grow. The aim of this study was to determine phytochemicals, the total phenolics content and antimicrobial activity of *S. lycopersicum*. Methanol and hexane were the two solvents that used in the extraction of *S. lycopersicum*. Total phenolics content of methanolic extract was evaluated by using Folin-Ciocalteu reagent method. The methanol extract and hexane extract were used in antimicrobial activity against Gram-positive *S. aureus* and Gram-negative *P. aeruginosa*. The presence of alkaloids, tannins, flavonoids, saponins and terpenoids were found in plant tested. The total phenolic content of methanolic extract that were obtained was  $1.67 \pm 0.01$  mg GAE/g. The result indicates that methanolic extract of *S. lycopersicum* potentially inhibited the growth of *S. aureus* and *P. aeruginosa*.