

Determination of Antimicrobial Effect and Essential Oil Composition *Salvia verticillata* L. Subsp. *amasiaca*

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Abstract : *Salvia* species are known as medicinal plant and often used in public. The antimicrobial effects and essential oil composition of *Salvia verticillata* L. subsp. *amasiaca* were determined. The antimicrobial activity is determined by using disk diffusion method against two Gram-positive bacteria, two Gram-negative bacteria and one kind of yeast and essential oil composition was determined by GC - MS. As a result of antimicrobial analysis while sample has shown very strong antimicrobial activity against *Staphylococcus aureus*, moderately effective against *Pseudomonas aeruginosa* and low effective against *Enterococcus faecalis*, it has not shown antimicrobial activity against *Escherichia coli* and *C. albicans*. Trans-caryophyllene (% 35.07), germacrene-d (% 10.98) and caryophyllene oxide (% 5.81) are the main components of essential oil composition.

Keywords : *salvia*, medicinal plant, antimicrobial activity, essential oil

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