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# Antibacterial activity of the essential oils of *Salvia officinalis* L. and *Salvia triloba* L. cultivated in South Brazil

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## Abstract

The essential oils of *Salvia officinalis* and *Salvia triloba* cultivated in South Brazil were analyzed by GC-MS. The major constituents of the oil of *S. officinalis* were  $\alpha$ -thujone, 1,8-cineole, camphor, borneol and  $\beta$ -pinene, whereas those of *S. triloba* were  $\alpha$ -thujone, 1,8-cineole, camphor, and  $\beta$ -caryophyllene. The essential oils of both species exhibited remarkable bacteriostatic and bactericidal activities against *Bacillus cereus*, *Bacillus megatherium*, *Bacillus subtilis*, *Aeromonas hydrophila*, *Aeromonas sobria*, and *Klebsiella oxytoca*. Moreover, the essential oil of *S. triloba* efficiently inhibited the growth of *Staphylococcus aureus*. *S. aureus* and *A. hydrophila* growth were drastically reduced even in the presence of 0.05 mg/ml of the essential oil of *S. triloba*.



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## Keywords

*Salvia officinalis*; *Salvia fruticosa*; Essential oil; Antimicrobial activity; GC-MS

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