

1. znanstvena konferenca z
mednarodno udeležbo
s področja kmetijstva,
naravovarstva in
hortikulture

»Prenos inovacij,
znanj in izkušenj v
vsakdanjo rabo«



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Antimicrobial and determination of DPPH free radical scavenging activity of *Satureja hotensis* L

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Summary

*This study was aimed at evaluating the antioxidant activity and efficacy of the ethanolic extract of the plant species in *Satureja hotensis* L inhibiting the development of selected fungi and bacteria. The highest susceptibility to the ethanolic extract of *O. aucherianum* among the bacteria was exhibited by *B. subtilis* and *S. aureus* (MIC = 15.62 µg/ml). Among the fungi, *A. niger* (MIC = 15.62 µg/ml) showed the highest susceptibility. Total phenolic and flavonoid contents were 106.46±1.68 mg GA/g, 25.91±0.88 mg RU/g, respectively. The results showed that the ethanolic extract of *Satureja hotensis* IC₅₀ values were determined for each measurement: 21.45±1.55 µg/ml for DPPH free radical scavenging.*

Key words: antimicrobial activity, antioxidant activity, *Satureja hotensis* L.

