Antibacterial Activity and Chemical Composition of the Essential Oil of 
Grammosciadium platycarpum Boiss. from Iran

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The chemical composition of the essential oils obtained from two samples (GP1 and GP2) 
of Grammosciadium platycarpum Boiss. was analyzed by GC and GC-MS. The analysis of 
the oils resulted in the identification of twenty-two constituents. Linalool (79.0% – GP1, 
81.8% – GP2) and limonene (10.0%, 5.8%) were found to be the major components, respec-
tively. The in vitro antibacterial activities of these oils and their main compounds against 
seven Gram-positive and Gram-negative bacteria were investigated. The results exhibited 
that the total oils and their major components possess strong to moderate activities against 
all the tested bacteria except for Pseudomonas aeruginosa.

Key words: Grammosciadium, Essential Oil, Antibacterial Activity