

Investigation of the flavonoidal constituents and insecticidal activity of *Teucrium zanonii*

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ABSTRACT

Teucrium zanonii (Family labiateae) is an endemic Libyan plant growing in many regions around Benghazi city. Investigation of the flavonoidal constituents of plant led to isolation of Cirsiliol, Luteolin, Chrysoeriol and Xanthomicrol from ethyl acetate fraction while Apigenin 6,8-di-O-glucoside and Luteolin-7-O-rutinoside were isolated from the butanol fraction. All compounds were identified by chromatographic and spectroscopic methods (UV, MS, ¹H and ¹³C NMR spectroscopy). The study of insecticidal activity of different extracts of the plant against the adult of *Phloeotribus oleae* showed the highest effect (86.67% mortality) was observed with the aqueous extract, while the unsaponifiable fraction was the least in this concern which give only 43.33% mortality,. Also, mortalities of 83.33%, 80.00%, 70.00% and 66.67% were obtained by using of alcoholic, butanol, ethyl acetate and chloroform extracts, respectively. Also the filed experiments proved that aqueous, alcoholic and butanol extracts significantly lowered the percentage of infestation to 70.82%, 65.86% and 66.56%, respectively after one week.

KEYWORDS

Labiatae . *Teucrium zanonii* . flavonoids . *Phloeotribus oleae* . insecticidal activity

REFERENCES

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