



## Evaluation of Antimicrobial Activity of Extract, Fractions and Isolated Substances from *Calliandra umbellifera* Benth.

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**SUMMARY.** The antimicrobial activity of the methanolic crude extract, the ethyl acetate and n-butanol fractions and the isolated substances (iriflophenone 2-*O*- $\beta$ -D-glucoside and 3-*O*-methyl-*chiro*-inositol) was studied using the microdilution method and determination of minimal inhibitory concentration (MIC) value. The results obtained with *Calliandra umbellifera* Benth. extract and fractions showed a strong antibacterial activity, with MIC between 128 and 256  $\mu$ g/mL for all bacterial strains and no antifungal activity; however, the isolated substances showed strong antifungal activity against *Candida albicans* and *Candida krusei* and no antibacterial activity. This is the first study reporting the biological properties of *C. umbellifera*.

**KEY WORDS:** Antimicrobial activity, *Calliandra umbellifera*, Iriflophenone 2-*O*- $\beta$ -D-glucoside, 3-*O*-methyl-*chiro*-inositol.

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