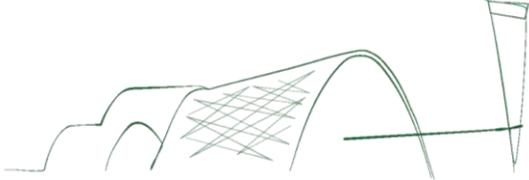




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Section: 03

ANTIMICROBIAL ACTIVITY OF PARTITIONS OF *Diplopterys pubipetala*

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Native to the Cerrado, *Diplopterys pubipetala* (Malpighiaceae) has been investigated regarding the chemical composition of its leaves, which are rich in terpenes, phenolic compounds, and other secondary metabolites, with remarkable antioxidant activity. This study aimed to investigate leaf partitions of *D. pubipetala* against *Staphylococcus aureus* (ATCC 6538), *Escherichia coli* (ATCC 8739), and *Pseudomonas aeruginosa* (ATCC 27853). The minimum inhibitory concentration (MIC) was determined for the hexane and dichloromethane partitions using the broth microdilution method in 96-well plates, according to the Clinical and Laboratory Standards Institute guidelines. MIC values for all samples tested against *E. coli* and *P. aeruginosa* were equal to or higher than 2000 $\mu\text{g.mL}^{-1}$, classifying them as inactive. The observed limited antibacterial activity may result from the extract type or plant material quality; nevertheless, *D. pubipetala* remains promising for future targeted studies. The authors thank FAPEMIG (Foundation for Research Support of the State of Minas Gerais), Process APQ 03057-22.

Keywords: *Diplopterys pubipetala*, antibacterial activity, bioactive compounds

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