



Antimicrobial Activity of *Alternanthera brasiliana* Kuntze (Amaranthaceae): a Biomonitored Study

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SUMMARY. In an attempt to identify new antimicrobial compounds with potential to be used as a bactericidal/fungicidal agent, a biomonitored study of extracts of *Alternanthera brasiliana*, which is used in Brazilian folk medicine as bactericidal, analgesic and anti-inflammatory, was developed. Different techniques of evaluation have been used in the partitioned extracts of the antimicrobial activity associated with chromatographic methodologies. The work led to the isolation of two substances in the ethyl acetate extract, identified as quercetin and sitosterol glycoside and the antibacterial evaluation of these substances demonstrated that the flavonoid presented antibacterial action against *S. aureus*. Further studies intend to identify new substances with antibacterial activity in extracts of *A. brasiliana*.

KEY WORDS: *Alternanthera brasiliana*, Bioautography, Microbiology, Quercetin, Sitosterol Glycoside.

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