

## ABSTRACT:

The crude extracts and isolated compounds of *Piper porphyrophyllum* (Piperaceae) were evaluated for antibacterial and anti-inflammatory activities. The ethyl acetate extract and 3',4',5,7-tetramethoxyflavone exhibited the highest activity against *Staphylococcus aureus* giving values of MIC = 62.5 and 250 µg/mL, respectively. 5-Hydroxy-7-methoxyflavanone and 4',5-dihydroxy-3',7-dimethoxyflavone were active against *Pseudomonas aeruginosa*, both with MIC value 125 µg/mL. The hexane extract and 4',5-dihydroxy-3',7-dimethoxyflavone gave the highest anti-inflammatory activity in in vitro quantitative lipoxigenase inhibition assay with inhibitory activity of (IE) 99.72% and 91.81%, respectively.