

The chemical composition and antimicrobial activity of the leaf oil of *Cupressus lusitanica* from Monteverde, Costa Rica

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ABSTRACT

The essential oils from the leaves of three different individuals of *Cupressus lusitanica* were obtained by hydrodistillation and analyzed by gas chromatography - mass spectrometry. A total of 49 compounds were identified in the leaf oils. The major components of *C. lusitanica* leaf oil were α -pinene (40%-82%), limonene (4%-18%), isobornyl acetate (up to 10%) and cis-muurola-4(14),5-diene (up to 7%). The essential oil was screened for antimicrobial activity, and it showed antibacterial activity against *Bacillus cereus* and antifungal activity against *Aspergillus niger*.

KEYWORDS

cis-muurola-4(14) . 5-diene . α -pinene . antimicrobial . composition . *Cupressus lusitanica* . essential oil . isobornyl acetate . limonene

REFERENCES

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