

PP-172. Chemical characterization of the essential oil of *Baccharis reticularia* DC. from three locations of Distrito Federal, Brazil

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Several species of the genus *Baccharis* are known and widely used due to its pharmacological properties. *Baccharis reticularia* DC. is an aromatic shrub, native and endemic to Brazil, whose chemical and biological properties have not been reported yet. The aim of this work was the characterization of the essential oil of this species coming from three distinct locations in the Federal District, Brazil. The essential oil from the dried leaves and flowers of 10 plants of each site was extracted by hydrodistillation in a modified Clevenger apparatus and analysed by gas chromatography (GC-FID) coupled to mass spectrometry (GC-MS). The contents of essential oil obtained ranged from 0.74% to 0.98% and did not differ statistically among the populations. The major compounds (> 5.0%) found in the essential oil of three populations of *B. reticularia* were beta-pinene, beta-phellandrene, bicyclogermacrene, germacrene D, spathulenol and kessane. There were significant variations in the relative percentage of the chemical constituents of the essential oil of the three populations. The Canonical Discriminant Analysis of the chemical profile of the essential oil of *B. reticularia* allowed to distinguish three populations.