



Essential Oil Composition and Antioxidant and Antimicrobial Properties of *Campomanesia pubescens* O. Berg, Native of Brazilian Cerrado

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SUMMARY. In this study, the essential oil composition, total contents of phenolics and proanthocyanidins, antioxidant and antimicrobial activities from different plant parts (root, stem, leaf and fruit) of *Campomanesia pubescens* (DC) O. Berg from Brazilian Cerrado are reported. The root essential oil is distinguished from others by having only one representative of monoterpenes (alpha-terpenylacetate). The aerial parts of *C. pubescens* are rich in volatile terpenes, as expected, especially in fruits whose essential oil contained approximately 80 % of monoterpenes. The essential oils showed antimicrobial activity against oral pathogens. The root essential oil showed the strongest inhibition against *Fusobacterium nucleatum* (ATCC 25586). The leaf extract presented the highest concentration of phenolic and proanthocyanidins compounds. The lowest concentration necessary for inhibition of DPPH to 50 % ranged between 6.6 ± 1.6 and 56.6 ± 2.3 $\mu\text{g/mL}$. The leaf extract exhibited the highest inhibition, close to BHT.

KEY WORDS: Antimicrobial activity, Antioxidant activity, Essential oil, Oral pathogens, Phenolics, Proanthocyanidins.

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