

Chemical and Microbiological Study of Extract from Seeds of Guaraná (*Paullinia cupana* var. *sorbilis*)

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SUMMARY. Chemical isolation of a semi-purified extract from the seeds of guaraná, *Paullinia cupana* H.B.K. var. *sorbilis* (Mart.) Ducke, resulted in the identification of caffeine, catechin, epicatechin, and procyanidins B2, B3 and B4. The antibacterial activity of the extracts and isolated substances was evaluated *in vitro* against *Staphylococcus aureus*, *Bacillus subtilis*, *Escherichia coli* and *Pseudomonas aeruginosa*. Even in concentrations up to 1000 µg/ml, there was no activity against these microorganisms.

RESUMEN. “Estudio Químico y Microbiológico del Extracto de Semillas de Guaraná (*Paullinia cupana* var. *sorbilis*)”. El aislamiento químico de un extracto semipurificado de las semillas de guaraná, *Paullinia cupana* H.B.K. var. *sorbilis* (Mart.) Ducke, resultó en la identificación de cafeína, catequina, epicatequina y procianidinas B2, B3 y B4. La actividad antibacteriana de los extractos y de las sustancias se evaluó *in vitro* contra *Staphylococcus aureus*, *Bacillus subtilis*, *Escherichia coli* y *Pseudomonas aeruginosa*. En concentraciones hasta 1000 µg/ml ninguna actividad fue demostrada frente a dichos microorganismos.

KEY WORDS: Antibacterial activity, Condensed tannins, *Paullinia cupana*.

PALABRAS CLAVE: Actividad antibacteriana, *Paullinia cupana*, Taninos condensados.

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