

## **PHYTOCHEMISTRY CHARACTERIZATION OF THE EFFECT OF CAGAITA (*Eugenia dysenterica*) IN LAXATIVE AND ANTIDIARRHEIC COMPOUND**

LIMA, T. B<sup>1</sup>, GROSSI DE SÁ, M. F<sup>2</sup>, FRANCO, O. L<sup>1</sup>, LEONARDECZ, E<sup>1</sup>

<sup>1</sup>Programa de Pós-Graduação em Ciências Genômicas e Biotecnologia,  
Universidade Católica de Brasília, Brasília-DF, Brazil.

<sup>2</sup>Embrapa Recursos Genéticos e Biotecnologia, Brasília-DF, Brazil.

There are many cases of active principles that were identified from alive organisms and plants are the more used species to obtain interesting substances. Based on bibliography, we started a research with a "Cerrado" fruit tree that is known as "Cagaita" (*Eugenia dysenterica* - *Myrtaceae*) which is believed by popular knowledge that it has laxative effects. However, with no scientific proof-of-concept was published yet. The aim of this research is the evaluation of the ethno pharmacological utilization of this species to verify the occurrence of diarrhea and laxative effects in an animal model. An experiment was established with eight different treatments, with extracts of leaves and fruits. Eight Wistar rats were used for each treatment. The bioassays were necessary to evaluate the absorption and the intestinal motility after samples administrations. Blood extractions of each rat were done at different periods. Significant differences were observed among treatments for the following biochemical variables: Cl, Mg and P. These evaluated ions are indicative of bad absorption, diarrhea and the over dry of the thin intestine. Significant differences among all treatments were observed for the intestinal motility evaluation.