Área: FMG 47

PHYTOCHEMICAL PROFILE OF Psidium cattleianum LEAVES

Gabriel Reis Schinkel^{1*}, Giovana Vechi^{1,2}, Luciane Angela Nottar Nesello^{1,2}

INTRODUCTION

Natural products have been used in the prevention and treatment of several diseases for many years, but nowadays, it necessary studies on the active compounds responsible for these biological effects. Several botanical families are evaluated in phytochemical research. such Myrtaceae family. Psidium genus, belong to this family and present several species known as "araças" and some classes of compounds already identified: flavonoids, terpenoids, and tannins. The aim of this study was to evaluate the phytochemical profile of the ethanolic extract of Psidium cattleianum leaves.

MATERIAL AND METHODS

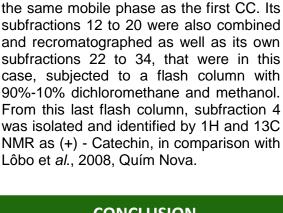
Fresh of P. cattleianum were leaves macerated with ethanol at temperature for a period of 1 week. The macerate was filtered and concentrated under reduced pressure in a rotatory evaporator. The yield was 17.36% (140g) of ethanolic extract. Part of the extract was subjected to fractionation with organic different solvents of polarities. Phytochemical analysis was carried out by chromatographic columns. resulting compounds were identified by specific standards and by the techniques of NMR ¹H and ¹³C in comparison to the literature.

RESULTS

The Ethyl Acetate fraction (2g) was subjected to column chromatography (CC) with silica gel and was eluted with







chloroform and methanol, increasing the polarity with time. Subfractions 84 to 92

were combined due to the similar profile

observed in thin layer chromatography (CCD) and were recromatographed with

CONCLUSION

The genus Psidium has active compounds with several biological activities already proven (FRAZON et al. 2009, Embrapa, FONSECA 2010, Fac Odontol, SILVA et al., 2013, BBR), demonstrating the importance of the continuity of the study to verify the biological properties of the species. Studies are in progress to isolate and identify other compounds from leaves, evaluate antioxidant, and to antinociceptive and gastroprotective activity of this plant.

ACKNOWLEGMENTS

Article 171 Research Fellows Program (Fumdes) and the Vice-Rectorate for Research. Graduate Studies and Innovation (VPPIN) University of Vale do Itajaí (UNIVALI).





¹Escola de Ciências da Saúde, Universidade do Vale do Itajaí, SC, Brasil.

²Programa de Pós Graduação em Ciências Farmacêuticas, Universidade do Vale do Itajaí, SC. Brasil. *gabriel.schinkel@edu.univali.br