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EVALUATION OF THE ANTIOXIDANT ACTIVITY OF ETHANOLIC EXTRACT OF *Orthopterygium huaucui* (A. gray). Hemsl.

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INTRODUCTION

Free radical scavenging compounds play an important role as protective factors of health and the studies carried out on medicinal plants in terms of their antioxidant activity have recently increased in our country.
The objective of the present work was to determine the antioxidant activity of the ethanol extract of leaves of *Orthopterygium huaucui* (A Gray) Hemsl.

MATERIAL AND METHODS

The ethanolic extract was subjected to a phytochemical march in which secondary metabolites were identified by color and / or precipitation reactions.

The evaluation of the antioxidant activity was carried out by three different methods because it is known that antioxidants can act by different mechanisms depending on the reaction system or the radical or oxidant source[1]. The results are expressed in internationally accepted units as equivalent antioxidant capacity in mM of Trolox for the Antioxidant Power of Ferric Reduction (FRAP) and for the Reaction with the radical 2,2'-azino-bis-(3-ethylbenzthiazolin-6-sulfonate) of ammonium) (ABTS), for the Inhibition against the free radical 2,2-Diphenyl-1-picrylhydraizil (DPPH) 2,3, the IC50 was determined.

RESULTS

The phytochemical screening of the ethanolic extract demonstrated the existence of several families of secondary metabolites of biological and pharmacological interest, among which stand out, due to their significant presence, flavonoids, tannins, triterpenes and / or steroids, and catechins.
The ethanol extract showed high antioxidant property values in all the techniques resulting realized that one milligram (1mg) of ethanol extract is equivalent to: Trolox 1.678 mM (FRAP method), 0.4078 mM Trolox (ABTS method) and the IC_{50} It is equivalent to 2.8573 mg of extract (DPPH method).

CONCLUSIONS

1. In the present work it is demonstrated that the leaves of Orthopterygium huaucui (A Gray) Hemsl. It has flavonoid polar chemical compounds and catechins with the ability to stabilize free radicals.

ACKNOWLEGMENTS

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