Phlomis lychnitis L. (Lamiaceae) as a source of bioactive compounds with functional properties

Francisco Les, Guillermo Cásedas and Víctor López

Department of Pharmacy, Faculty of Health Science, Universidad San Jorge, Zaragoza

INTRODUCTION:

Phlomis lychnitis L. (Lamiaceae) is a shrub found in the Iberian Peninsula and in other Mediterranean countries. *P. lychnitis*, also known as "candilera" in Spain, has been used in traditional medicine to treat illnesses such as colds and gastrointestinal problems. Due to the presence of different metabolites in the composition of this plant, it could be a source of bioactive principles for the development of possible new treatments.

OBJECTIVE:

To determine the bioactive properties (total polyphenols, antioxidant properties and capacity to inhibit digestive enzymes) of a **methanolic extract of *P. lychnitis* L.**

MATERIAL & METHODS:

Maceration in methanol and subsequent rotary evaporation

Reducing capacity:

Total Polyphenols→ *Folin-Ciocalteu* method

Antioxidant *Screening* :

→ DPPH· radical scavenging

→ Superoxide radical scavenging

Enzymatic inhibition *Screening* :

→α-Glucosidase → Lipase

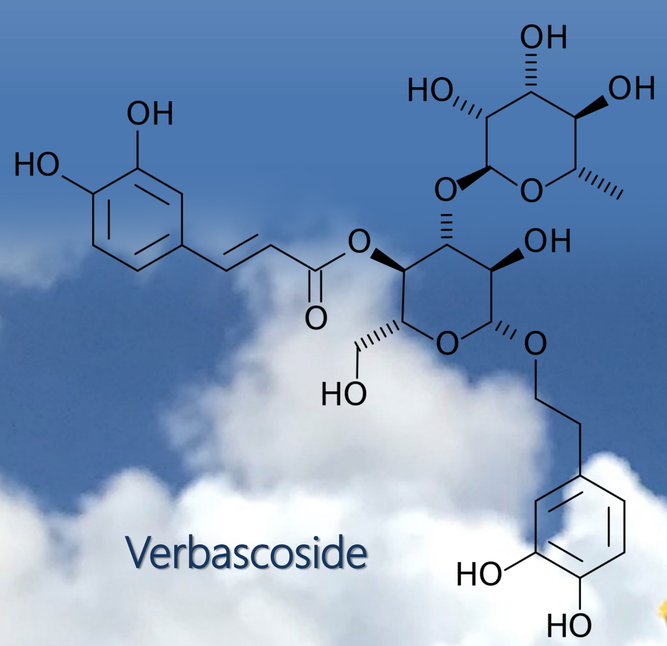
→ Xanthine oxidase

It does not inhibit lipase

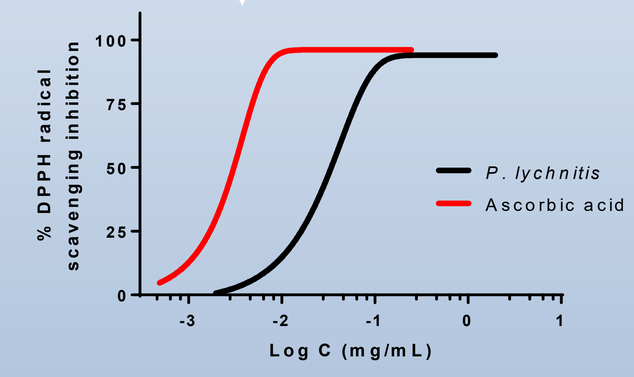
RESULTS:

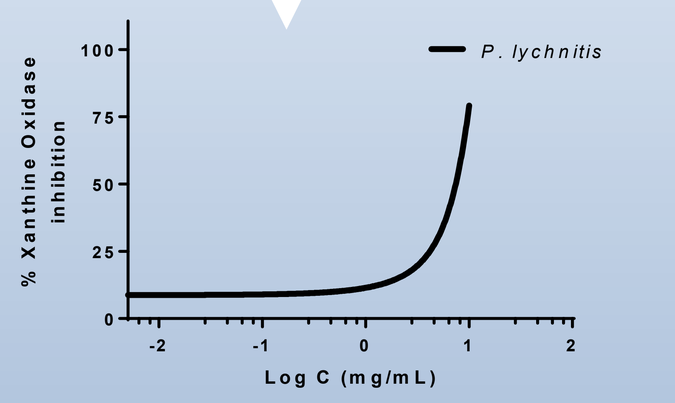
The extract contains

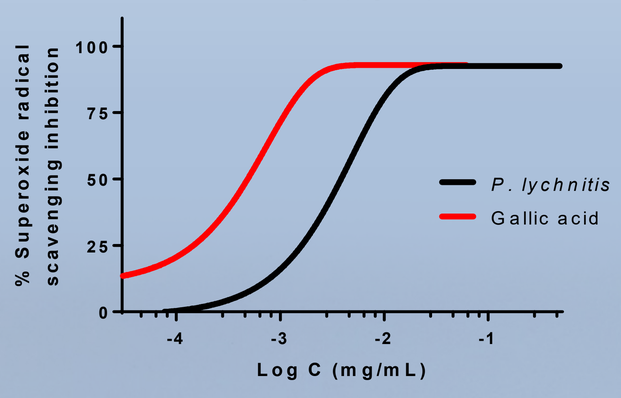
75,4 ± 18,4 µg GAE equivalents /mg extract.

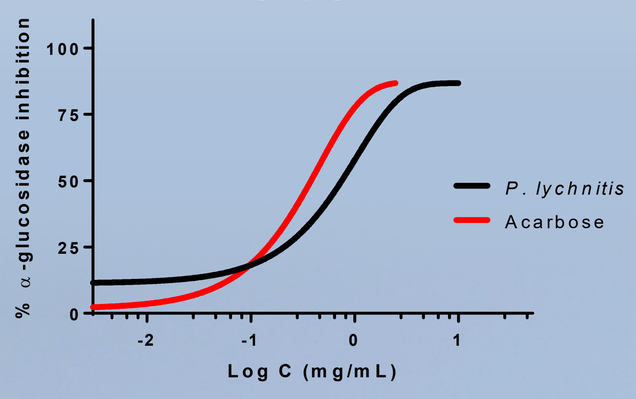


Verbascoside









CONCLUSION:

The extract showed antioxidant-reducing capacity with ability to inhibit the α-glucosidase and xanthine oxidase enzymes

6th International Electronic Conference on Medicinal Chemistry
1-30 November 2020

sponsored: MDPI *pharmaceuticals*