



HP-17: LC-MS analysis of *Centaurea papposa* extract

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The main sources of polyphenols are medicinal herbs, vegetables and fruits. Numerous analytical procedures have been developed for the quantification of phenolic compounds in herbs. High-performance liquid chromatography method coupled with mass spectrometry (LC–MS) is one of the most used techniques.

This work aimed to ascertain the phenolic compounds of ethyl acetate extract of *Centaurea papposa*, in order to find new sources of polyphenols.

Phenolic compounds were appraised using LC-MS technique, à l'aide d'une UHPLC Shimadzu de modèle Nexera couplée à un instrument MS en tandem.

LC-MS analysis revealed the presence of 21 compounds among which 13 were phenolic acids, 6 flavonoids, 1 phenolic aldehyde and 1 benzo-pyrone.

The results show that ethyl acetate extract of *Centaurea papposa* can be used as a herbal drug, In view of the beneficial effects on health identified for phenolic compounds .

Keywords: *Centaurea papposa*; LC-MS analysis ; polyphenols ; ethyl acetate extract.

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