

## Antioxidant activity, carotenoids, chlorophylls and mineral composition from leaves of *Pallenis spinosa*: an Algerian medicinal plant

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Description :

Background

Plant and medicinal herbs are important sources of bioactive compounds and minerals that can play a role in preventing various diseases and they are considered a factor indispensable for the proper functioning of the human body.

Methods

We investigated the content of carotenoids and chlorophylls of leaves from *Pallenis spinosa* (*P. spinosa*), as well as their antioxidant activity and mineral composition then, we optimized the solvent extraction for the recovery of total carotenoids and chlorophylls using spectrophotometric method. Finally, we tested the antioxidant activity of the optimized extract by three assays (DPPH, ABTS and FRAP) and we determined the mineral composition by Emission Spectrometer Induced Couple Plasma (ICP).

Results

Carotenoid (CART), chlorophylls (CHLa+ b), chlorophyll a (CHLA), chlorophyll b (CHLB) contents were about  $36.337 \pm 0.312$ ;  $347.769 \pm 6.326$ ;  $224.286 \pm 5.601$  ...

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antioxidant activity; carotenoids; chlorophylls; extraction; mineral composition; *Pallenis spinosa*