

Total phenolic content and in vitro antioxidant activity of achillea species

BOUBERTAKH Hadjer, KHALFALLAH Assia, KABOUCHE Zahia

Frères Mentouri University Constantine 1, Laboratory of Obtention of Therapeutiques Substances (L.O.S.T.), Campus Chaabet Ersas, 25000 Constantine

Email: hadjerboubertakh25@gmail.com

The genus *Achillea* is one of the most important genera in the Asteraceae family, which includes about 130 species around the world. It is mainly perennial herbaceous, which grows mainly in Europe and temperate areas of Asia and a few in North America. We report here, the antioxidant activity of *Achillea* species using three complementary methods (DPPH• radical scavenging, ABTS•+ and Phenanthroline activity). While, the total phenolic content was determined by the Folin–Ciocalteu method with gallic acid as a standard. The results showed that the studied plant presents a good antioxidant potential due to their richness in polyphenols.

Key words: Achillea, DPPH, ABTS, Phenanthroline, antioxidant.