

Chemical constituents and bioactivities of *Malabaila suaveolens*

I. Nassar Mahmoud, A. Aboutabl El-Sayed, A. Maklad Yousreya, A. El-Khrisy Ezzel-Din, F. Osman Abeer

aChemistry of Natural Compounds Department, National Research Centre, 12622 Dokki, Cairo, Egypt.

ABSTRACT

Volatile oil components, fatty acids, beta-amyrin, and sterols were identified in the n-hexane extract of *Malabaila suaveolens* Coss. fruits. Angelicin, 4,7,9-trimethyl psoralen, isopimpinellin and umbelliferone were isolated from the dichloromethane extract of the plant. 5-Hydroxy 7, 3', 4'-trimethoxyflavone, apigenin and its 7-O-beta-D-glucopyranoside were isolated from the ethyl acetate extract. From the methanol extract, a new flavonoid, apigenin 7-O-(6"-O-p-hydroxybenzoyl)-beta-D-glucopyranoside (1), along with vicenin 2, acacetin 7-O-rutinoside, and 6-hydroxyapigenin 7-O-beta-D-glucopyranoside were isolated. Toxicity study of n-hexane, dichloromethane, ethyl acetate extract and methanolic extracts of the plant proved that it is relatively nontoxic. The tested extracts showed significant analgesic and anti-inflammatory effects as compared with control groups and reference drugs. Also, the tested extracts showed significant antioxidant activity as compared with reference.

KEYWORDS

Malabaila suaveolens . coumarins . flavonoids . bioactivity

REFERENCES