

## Secondary metabolites and bioactivities of *Albizia anthelmintica*

Tahia K. Mohamed, Mahmoud I. Nassar, Ahmed H. Gaara, Walaa A. El-Kashak, Inaki Brouard, Sayed A. El-Toumy

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

### ABSTRACT

Background *Albizia* species are rich in phenolics and terpenes in the different plant organs. They are widely used in traditional Chinese medicine. So this study investigated the phytochemical and biological activities of *Albizia Anthelmintica*. Materials and Methods Column chromatography has been performed for the isolation of compounds. Bioactivity studies of *A. anthelmintica* leaves were carried out on aqueous ethanol extract and some pure compounds were tested for their antioxidant activities. Results Eight compounds have been isolated for the first time from *A. anthelmintica*. The aqueous ethanol extract of *A. anthelmintica* showed moderate anti-inflammatory activity and significant for both analgesic and antioxidant activities. Quercetin-3-O-b-D-glucopyranoside, kaempferol-3-O-b-D-glucopyranoside, kaempferol-3-O-(6b-O-galloyl-b-D-glucopyranoside and quercetin-3-O-(6b-O-galloyl-b-D-glucopyranoside) exhibited potent antioxidant scavenging activity towards diphenyl-picrylhydrazine.

### KEYWORDS

*Albizia anthelmintica*, analgesic, anti-inflammatory, antioxidant, diphenyl-picrylhydrazine, flavonoids

### REFERENCES