

Phytochemical constituents and biological activities of 3 Melicope lunu-ankenda

ABSTRACT

Natural products, either pure compounds or standardized plant extracts, have provided opportunities for the discovery of new drugs. Nowadays, most of the world's population still relies on traditional medicines for healthcare purposes. Plants, particular, are always used as traditional medicine, as they contain a diverse number of phytochemicals that can be used for the treatment of diseases. The multicomponent feature in the plants is considered a positive phytotherapeutic hallmark. Hence, ethnopharmacognosy has been the focus for finding alternative treatments for diseases. *Melicope lunu-ankenda*, also known as *Euodia lunu-ankenda*, is widely distributed in tropical regions of Asia. Different parts of *M. lunu-ankenda* have been used for treatment of hypertension, menstrual disorder, diabetes, and fever, and as an emmenagogue and tonic. It has also been consumed as salad and as a condiment for food flavorings. The justification of use of *M. lunu-ankenda* in folk medicines is supported by its reported biological activities, including its cytotoxic, antibacterial, antioxidant, analgesic, anti diabetic, and anti-inflammatory activities. This review summarizes the phytochemical compounds isolated from various parts of *M. lunu-ankenda*, such as root and leaves, and also its biological activities, which could make the species a new therapeutic agent for some diseases, including diabetes, in the future.

Keyword: *Melicope lunu-ankenda*; Rutaceae; Biological activities; Ethnopharmacognosy; Phytochemical