

2nd International Conference and Exhibition on Pharmacognosy, Phytochemistry & Natural Products

August 25-27, 2014 DoubleTree by Hilton Beijing, China

Preliminary phytochemical screening of *Eucalyptus camaldulensis* leaves, stem-bark, root, fruits and seeds aqueous and ethanolic extracts

Ibrahim Sani

Kebbi State University of Science and Technology, Nigeria

Phytochemicals are active secondary plant metabolites responsible for most of the claimed medicinal activities of plants. *Eucalyptus camaldulensis* is one of those plants that possess these phytochemicals and claimed to possess medicinal activities on various ailments. The phytochemicals constituents of various parts of this plant were investigated using standard methods of phytochemicals screening in both aqueous and ethanolic extracts. Qualitative screening revealed that tannins, saponins, glycosides, steroids and anthraquinones were present in aqueous extract of all the parts of the plant, whereas alkaloids, flavonoids and terpenoids were absent. On the other hand, tannins and steroids were present in the ethanolic extract of all the parts of the plant, while saponins, alkaloids, flavonoids and terpenoids were present only in some parts of the plant. However, glycosides and anthraquinone were absent in all the ethanolic extracts. The quantitative screening revealed large amount of saponins in both aqueous and ethanolic extracts across the various parts of the plant. Whereas small amount of tannins, alkaloids and flavonoids were found only in the ethanolic extract of some parts of the plant. The presence of these phytochemicals in *Eucalyptus camaldulensis* could therefore justify the applications of the plant in management and curing of various ailments as claimed traditionally.

Biography

Ibrahim Sani was born in Kano State, Nigeria on 3rd April, 1974. He attended Bayero University, Kano, Nigeria where he obtained a BSc in Biochemistry in 2006. He completed his MSc in Biochemical Engineering in 2011 from University of Birmingham, United Kingdom. He is currently a lecturer and researcher in Kebbi State University of Science and Technology, Aliero, Nigeria. His area of research interest is Applied Molecular Biology and Pharmacognosy where he published among other authors more than twenty (20) papers in reputable journals.

isani76@gmail.com