

Chemical Composition of the Essential Oils from Several Plants of Nigeria by Capillary Gas Chromatography-Mass Spectrometry

V. Tira-Picos¹, A.A. Gbolade², J.M.F. Nogueira^{1,3}

¹Chemistry and Biochemistry Department, Faculty of Sciences of the University of Lisbon, Campo Grande Ed. C8, 1749-016 Lisboa, Portugal

²Department of Pharmacognosy, Faculty of Pharmacy of the University of Obafemi Awolowo, Ile-Ife, Nigeria

³Center for Molecular Sciences and Materials, Faculty of Sciences of the University of Lisbon, Campo Grande Ed. C8, 1749-016, Portugal; nogueira@fc.ul.pt

Chenopodium reticulatum, *Piliostigma reticulatum* e *Harungana madagascariensis* are some important and popular plants widely distributed in Nigeria countryside with strong aromatic odours and great economic interest, since presenting potential medicinal properties. Nevertheless, the chemical composition of the essential oils of those plants was never studied, in order to identify important compounds that could be associated to the treatment of particular diseases.

The present contribution reports, for the first time, the chemical composition of the essential oils from *Chenopodium reticulatum*, *Piliostigma reticulatum* and *Harungana madagascariensis* plants, using the conventional distillation-extraction and hydrodistillation techniques for isolation followed by capillary gas chromatography coupled to mass spectrometry (GC-MS) for identification and quantification purposes.

References

P. Sandra and C. Bichi, in "Capillary Gas Chromatography in Essential Oil Analysis", Ed. P.Sandra, Huethig Verlag, 1987.

R. Adams, in "Identification of Essential Oil Components by Gas Chromatography/Quadrupole Mass Spectroscopy", Ed. Allured Publishing Corporation, 2001.