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ACCEPTED ABSTRACTS

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Gas chromatography-mass spectrometry analysis of phytoconstituents of ethanol leaf extract of *Piliostigma thonningii* (Camel' Foot)

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Piliostigma thonningii (Schumach) Milne-Redhead belongs to the family of plants known as Leguminosae. It is a plant used for medicinal purposes in many African countries. This investigation was carried out to determine the

possible bioactive components of ethanol leaf extract using gas chromatography-mass spectroscopic analysis. Fifteen (15) bioactive components were identified. These prominent compounds from the ethanol leaf extract of *Piliostigma thonningii* were, 2,3-propanetriol monoacetate (3.58 %), 5-Hydroxymethyl-2-furancarboxaldehyde (7.72%), 4,4-ethylenedioxy-2-pentanone (3.23%), ethoxy-6-methyl-2-cyclohexane (2.52%), methyl hexofuranoside (1.42 %), Hexadecanoic acid (1.18%), nonadecanoic acid (2.77%), 13-hexoxacyclotridec-10-en-2-

one (6.13%), linolelaidic acid, 11-octadecenoic acid (1.57%), methyl ester, octadecanoic acid (3.40 %), stearic acid (1.79%), 1-nonadecanol (47.34%), β -monoglyceride- palmitic acid (2.38%), 2-methyl-z,z-3,13-octadecadienol (10.25%). The presence of the bioactive chemical components in the leaf of *Piliostigma thonningii* may justify the folkloric use of leaves by local people for the treatment of various ailments. Isolation of each chemical component could provide a lead to the establishment of a novel drug.

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