Gas chromatography mass spectrometry analysis and phytochemical screening of Sterculia setigera oil

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This research explored the gas chromatography mass spectrometry (GC-MS) analysis of volatile organic compounds for normal hexane extract of Sterculia setigera seeds. The oil was extracted by cold extraction method and the phytochemical screening was tested for extracted oil. (GC-MS) analysis was carried out according to standard analytical methods for crude oils. A total of 46 compounds were reported for normal hexane extract, besides there are some new compounds that have not been previously reported. All secondary metabolized compounds have been reported in the normal hexane extract except the phenolic compounds. The most abundant compounds in normal hexane extract are pentadecanoic acid, 1-(1,1-dimethylethyl)-2-methoxy-4-methyl-3,5-dinitrobenzene,3-cyano-2-oxa-1-ethoxyadamantanane and methyl pentadecanoate.

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