ABSTRACT

The bioactive components Ensete superbum Seed Powder has been evaluated using GCMS, HPLC, FTIR and HNMR. The chemical compositions of the extract of Ensete superbum Seed Powder was investigated by Gas Chromatography–Mass Spectrometry and GC/MS techniques. The analysis of extract of Ensete superbum Seed Powder revealed that the existence of Eugenol (39.51) n-Hexadecanoic acid (21.97), 9-Eicosyne (5.18), 3-Decanynoic acid(1.87), 1- Tetradecyne(5.30), 7-Methyl-Z-tetradecen-1-ol acetate(1.88), 1-Hexadecyne (9.71), Z-(13,14- Epoxy)tetradec-11-en-1-ol acetate(2.61), Octadecanoic acid (6.01), Tridecanedial (4.78) and cis-13-Eicosenoic acid (1.17). HPLC analysis of Ensete superbum Seed Powder reported that it has mainly contains five flavonoids compounds, namely Gallic acid (5.550 min), Caffeic acid (9.233min), Rutin (10.317min), Quercetin (12.125min) and Ferulic acid (23.200min). The results of FTIR analysis confirmed the presence of Alkynes, Alkanes , Amines , aromatic amines, alkyl halides, alkenes, carboxylic acids and Aromatic Compounds. Further, proton nuclear magnetic resonance spectrum of Ensete superbum Seed Powder was recorded and the chemical shift values of the various signals are identified. The detection of these phytochemical compounds present in the medicinal plants will endow with some information on Ensete superbum Seed Powder as herbal alternative for cure vast array of diseases.