

Chemical Variability in the Essential Oils from the Leaves and Buds of Syzygium Species

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Abstract : The variability in the chemical components of the Syzygium species essential oils has been evaluated. The leaves of Syzygium species have been collected from Perak, Malaysia. The essential oils extracted by using the conventional Hydro-distillation extraction procedure and analyzed by using Gas chromatography System attached with Mass Spectrometry (GCMS). Twenty-seven constituents were found in Syzygium species in which the major constituents include: α -Pinene (3.94%), α -Thujene (2.16%), α -Terpineol (2.95%), g-Elemene (2.89%) and D-Limonene (14.59%). The aim of this study was the comparison between the evaluated data and existing literature to fortify the major variability through statistical analysis.

Keywords : chemotaxonomy, cluster analysis, essential oil, medicinal plants, statistical analysis

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