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A CONVENIENT HPLC ANALYSIS OF POLYPHENOL (RESVERATROL OLIGOMER) MIXTURES OF DIPTEROCARPACEAE

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Isolation of polyphenols (resveratrol oligomers) of Dipterocarpaceae has proved difficult due to their similarities in chromatographic behaviour. As such many of these polyphenols have been characterised as their permethyl ethers[1-3]. Analysis of new polyphenol mixtures (extracts) is therefore cumbersome and time consuming.

We now report a facile and convenient method involving High Pressure Liquid Chromatography (HPLC) for the analysis of polyphenol extracts using Whatman partisil regular phase column with an eluant of 60% ethyl acetate in hexane. HPLC analysis of polyphenol extracts derived from Hopea cordifolia, H. jucunda and Stemonoporus canaliculatus showed the presence of several new polyphenols in addition to the ones that have already been reported from these species[1-3].

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