



## Phytochemical investigation of ethanolic extract of *Pericampylus glaucus* leaves from Malaysia by GC-MS analytical technique

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**Abstract :** The aim of the present research work was to determine the Phyto-constituents in fraction collected from ethanolic extract of *Pericampylus glaucus* leaf using the GC and Mass spectrometry. The Phyto-chemical screening of fraction from ethanolic extract of *Pericampylus glaucus* leaves were carried out with the help of Perkin-Elmer GC followed by Mass Spectrometry.

The GC-MS chromatogram of *Pericampylus glaucus* leaves fraction that was collected from ethanolic extract followed by petroleum ether and ethyl acetate mixture showed 10 peaks that represents the presence of ten compounds in investigated plant. The benzoic acid, 5-methoxy-2-[(trimethylsilyl)oxy]-, trimethylsilyl ester (cas) 5-methoxy-salicylic acid-ditms, was found as one of the most predominant constituent (7.95 %) followed by another benzoic acid, 2-[(trimethylsilyl)oxy]-, methyl-ester (cas), methyl-o-, trimethyl-silylsalicylate (7.43 %); propanoic acid, 2-[(trimethylsilyl)oxy], trimethylsilyl ester (3.57 %); butanedioic acid, bis (trimethylsilyl)-ester (cas) di-tms succinate, (0.63 %); vanilethanediol 3 tms (0.59%); acetic acid, [(trimethylsilyl)oxy]-, trimethylsilyl ester (cas)-glycolic acid-ditms, (0.41 %), and (3-Hydroxy-4-, methoxyphenyl) ethylene glycol tris(trimethylsilyl) ether (0.30%); benzoic acid, 3-methoxy-4-[(trimethylsilyl)oxy]-, trimethylsilyl ester, (0.25%), and 2-[(trimethylsilyl)oxy]-, methyl ester (cas) methyl-o-trimethyl-, silylsalicylate, (0.19%); and benzaldehyde, 3-methoxy-4-[(trimethylsilyl)-oxy]-, (cas) monotrimethylsilyl vanillin (0.17%). Among ten compounds identified from *Pericampylus glaucus* fractions, only three compounds were documented to have biological and pharmacological activities. The result indicates that *Pericampylus glaucus* leaves contain several bioactive constituents and its ethnopharmacological effects most probably due to the presence of those chemical constituents, the therapeutic activities of which are required to evaluate.

**Keywords :** *Pericampylus glaucus* (Lam) Merr, GC-MS analysis; fraction of extract; ethanolic extract; phytochemicals; phytochemical analysis, Malaysia