A STUDY OF THE ESSENTIAL CIL OF PEPPER (PIPER NIGRUM L.)
BY COMBINED GC-MS ANALYSIS

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the essential of dried pepper was obtainted by steam stillation  $^{1/2}$ . The oil was analysed by combined capillary GC and mass spectrometry. Of the 75 peaks recorded by gas thromatography 49 were identified with the aid of mass spectra library and relative retention times. The presence of compounds previously reported in the oil were confirmed while a number of other compounds such as  $\infty$  -cubene,  $\beta$  -gurjugene,  $\beta$  -cadinene,  $\infty$  -merolidol, eugenol, and murrorol-T were identified. The oil was found to contain monoterpenes (67%) and sesquiterpenes (27%).  $\beta$  -cary-ophyllene (17.8%),  $\infty$  -ylangene (2.05%),  $\delta$  -elemene

 $\beta$  -cary-ophyllene (17.8%),  $\infty$  -ylangene (2.05%),  $\delta$  -elemene (1%),  $\infty$  -humulene (0.9%), and murralol-T (0.9%) were found to be the major compounds in the sesquiterpene fraction. In addition small amounts of oxygenated terpenes and phenyl propanoides were also found to be present in the pepper cil.

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