

Study of Propolis by High Temperature High Resolution Gas Chromatography-Mass Spectrometry

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The underivatized hexane and acetone extracts of two propolis samples (from Brazil's southwest) were analyzed by HT-HRGC (high temperature high resolution gas chromatography) and HT-HRGC coupled to mass spectrometry (HT-HRGC-MS). Several compounds, including flavonoid aglycones, phenolic acids and high molecular weight compounds could be readily characterized in the crude extracts by HTHRGC-MS. HTHRGC and HTHRGC-MS were shown to be quick and informative tools for rapid analysis of crude extracts without need for prior derivatization and purification.

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