

ABSTRACT

Analytical evaluation of drugs by using chromatographic methods IV.

Diploma Thesis

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Rapid analytical methods are described to control quality of honeys, concerning residues of acaricides applied in hives to prevent the mite *Varroa jacobsoni* infestation. Tau - fluvalinate was analysed by the use of a SGX RP-18C column, 5 μm , a acetonitrile : water (40:60) mobile phase, flow rate of 1 ml/min and a UV detector set at 254 nm. An internal standard was used for quantitative determination. A calibration curve was constructed and verified, by means of which the concentration of tau - fluvalinate in honey can be determined. The elaborated method was validated by detection limit determination.