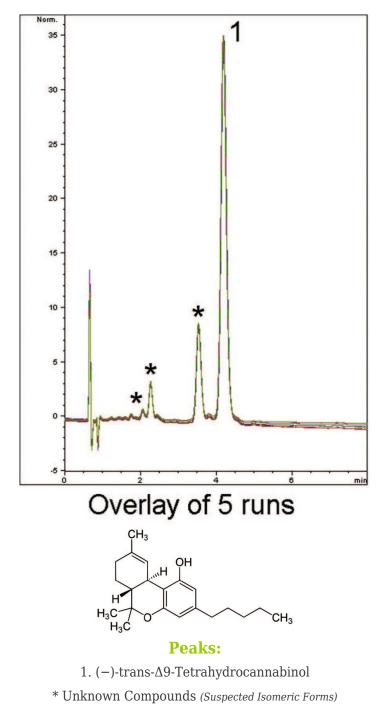
MICROS

Tetrahydrocannabinol Analyzed by HPLC – AppNote

The Psychoactive Component THC in Cannabis

Tetrahydrocannabinol *(THC)* which is derived from Cannabis, has several isomeric forms, which may account for the extra Peaks observed in the Chromatogram below. Although their identities could not be confirmed, these Peaks can be Separated from the main Peak using this Method. The compound is quite hydrophobic and therefore a relatively high organic content is used in the Mobile Phase to ensure the retention is not excessive.

Run-to-run precision is very reliable using this Method as the overlay of Five Chromatograms demonstrate.



MICROS

Method Conditions

Column: Cogent Bidentate C18[™], 4µm, 100Å Catalog No.: 40018-75P Dimensions: 4.6 x 75mm Mobile Phase: 30:70 DI Water with 0.1% Formic Acid (v/v) / Acetonitrile Injection vol.: 20µL Flow rate: 1mL / minute Detection: UV @ 288nm Sample Preparation: Δ9-Tetrahydrocannabinol analytical standard solution (1mg / mL in Methanol, Sigma-Aldrich cat# T4764) was diluted 1:10 with Diluent of 80:20 Acetonitrile / DI Water.

Note: THC is the psychoactive component found naturally in the Cannabis plant. Although still classified as a Schedule I controlled substance at the Federal Level, many US states now have laws allowing its use for recreational purposes.



Attachment

No 357 Tetrahydrocannabinol Analyzed by HPLC pdf 0.4 Mb Download File

Printed from the Chrom Resource Center **MicroSolv Technology Corporation** 9158 Industrial Blvd. NE, Leland, NC 28451 tel. (732) 380-8900, fax (910) 769-9435 Email: customers@mtc-usa.com Website: www.mtc-usa.com Date: 03-05-2024