

Application Report 83

Analysis of Cannabinoids Using Ascentis™ C18

This application demonstrates the suitability of Ascentis C18 for the efficient separation of the cannabinol, cannabidiol and Δ -9-tetrahydrocannabinol by HPLC.

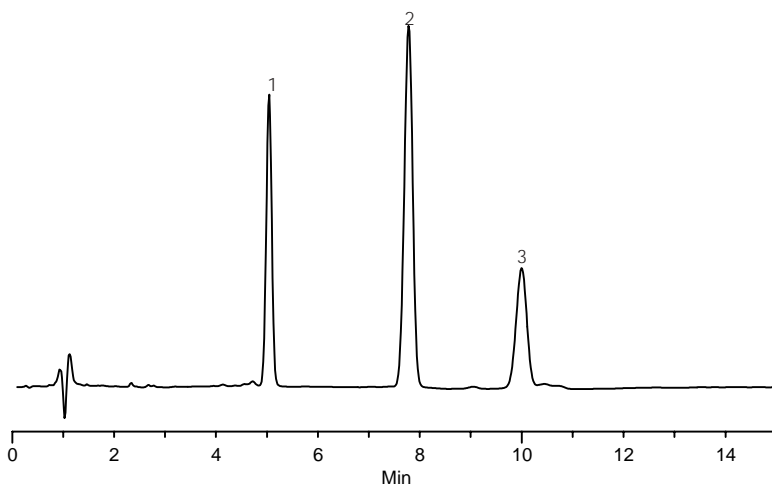
Key Words

Ascentis C18, cannabinol, C6520, 521-35-7, cannabidiol, C6395, 13956-29-1, Δ -9-tetrahydrocannabinol, T4764, 1972-08-3, 581321-U

Author: Hugh Cramer

Acquisition System: Waters Alliance
2690 ID 9371

Notebook Reference: 1495-41



G002326

Conditions

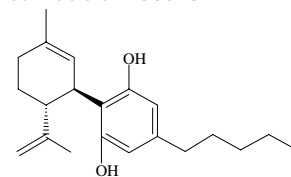
column: Ascentis C18, 10 cm x 4.6 mm I.D., 3 μ m particles (581321-U)
mobile phase: 25:75, 10 mM ammonium acetate (pH 4.5 with acetic acid):acetonitrile
flow rate: 1 mL/min.
temp.: 35 °C
det.: UV at 220 nm
injection: 10 μ L
sample: 30 μ g/mL each in mobile phase

Peak IDs

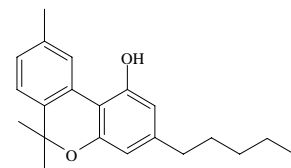
1. Cannabidiol
2. Cannabinol
3. Δ -9-tetrahydrocannabinol

Structures

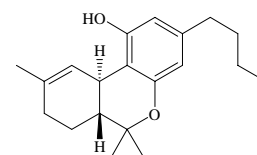
Cannabidiol - G002327



Cannabinol - G002228



Δ -9-tetrahydrocannabinol - G002329



Ascentis is a trademark of Sigma-Aldrich Co.