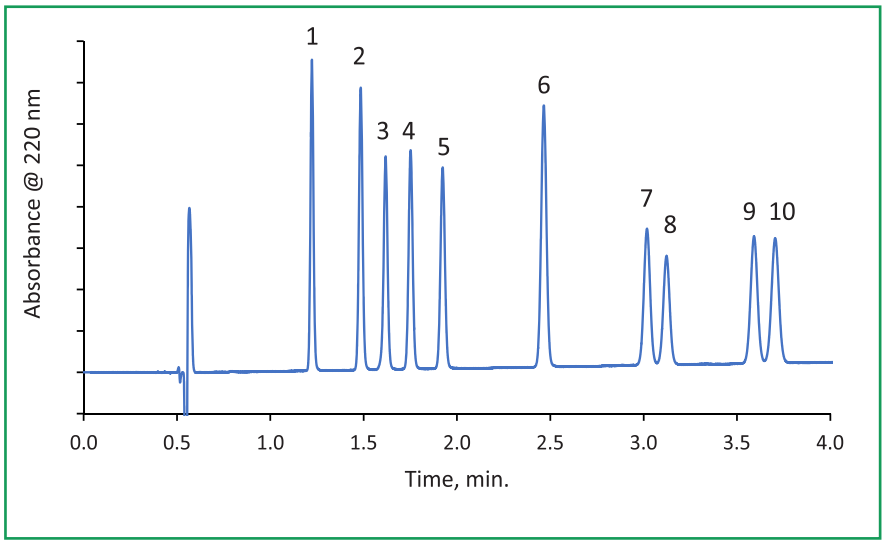
HALO®

CANNABIS

Fast Separation of Ten Cannabinoids on HALO® C18

Application Note 155-CN



PEAK IDENTITIES:

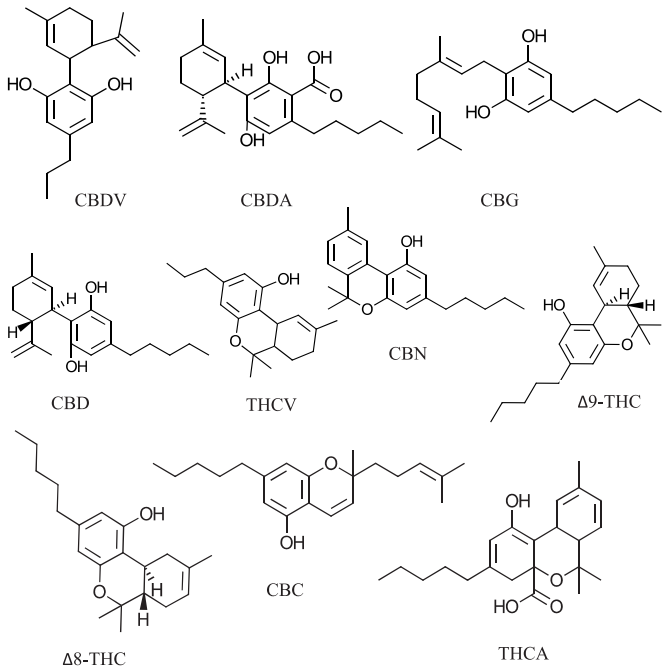
1. Cannabidivarin (CBDV)
2. Cannabidiolic acid (CBDA)
3. Cannabigerol (CBG)
4. Cannabidiol (CBD)
5. Tetrahydrocannabivarin (THCV)
6. Cannabinol (CBN)
7. delta-9-Tetrahydrocannabinol (Δ9-THC)
8. delta-8-Tetrahydrocannabinol (Δ8-THC)
9. Cannabichromene (CBC)
10. delta-9-Tetrahydrocannabinolic acid A (THCA)

A HALO® C18 column is used to separate a mixture of ten cannabinoids, showing fast results and high resolution within critical pairs. Cannabinoids are a class of chemical compounds primarily found in the marijuana plant. Many of these compounds have been found to provide medicinal benefits such as reduction in pain and inflammation.

TEST CONDITIONS:

Column: HALO 90 Å C18, 2.7 µm, 4.6 x 100 mm
Part Number: 92814-602
Mobile Phase:
A: Water/0.1% formic acid
B: Acetonitrile/0.085% formic acid
Gradient: 77-85% B in 4 min
Flow Rate: 1.5 mL/min
Initial Pressure: 197 bar
Temperature: 38 °C
Detection: UV 220 nm, PDA
Injection Volume: 1.3 µL
Dwell Volume: 0.471 mL
Sample Solvent: 75/25 methanol/water
Response Time: 0.025 sec
Data Rate: 100 Hz
Flow Cell: 1.0 µL
LC System: Shimadzu Nexera X2

STRUCTURES:



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