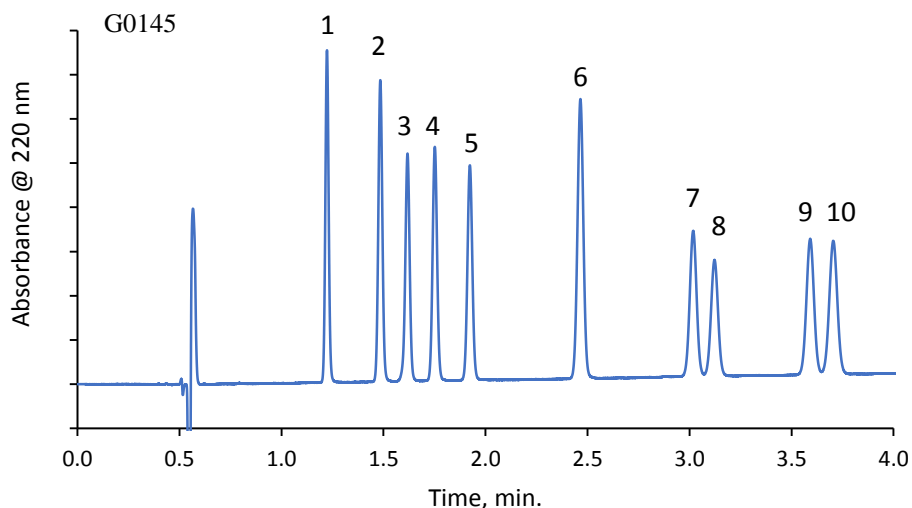


Separation of Cannabinoids on HALO C18



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 (Δ^9 -THC)
8. delta-8-Tetrahydrocannabinol (Δ^8 -THC)
9. Cannabichromene (CBC)
10. delta-9-Tetrahydrocannabinolic acid A (THCA)

TEST CONDITIONS:

Column: HALO 90Å, C18, 2.7 μm , 4.6 x 100mm
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

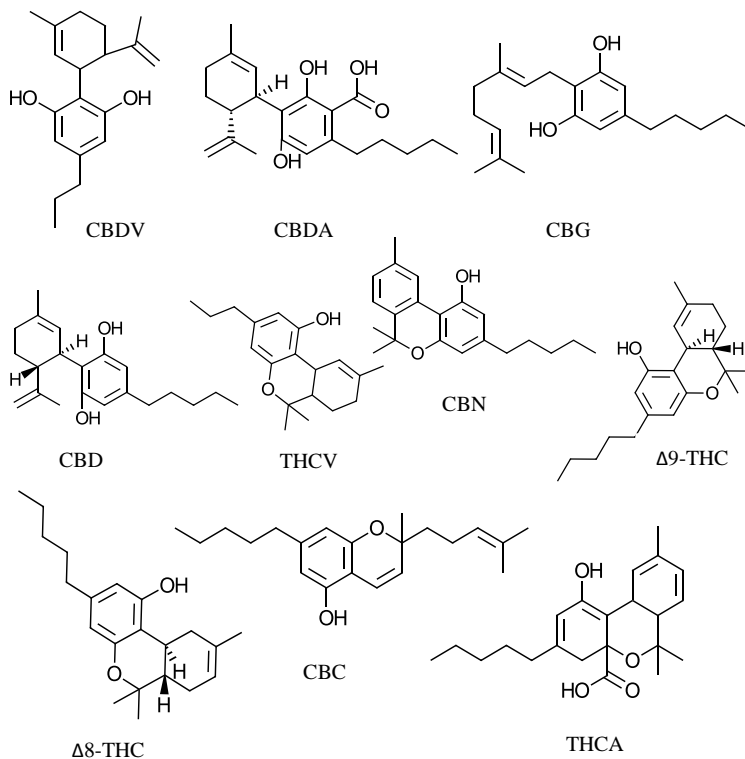
Response Time: 0.025 sec.

Data Rate: 100 Hz

LC System: Shimadzu Nexera X2

Flow Cell: 1 μL

STRUCTURES:



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.