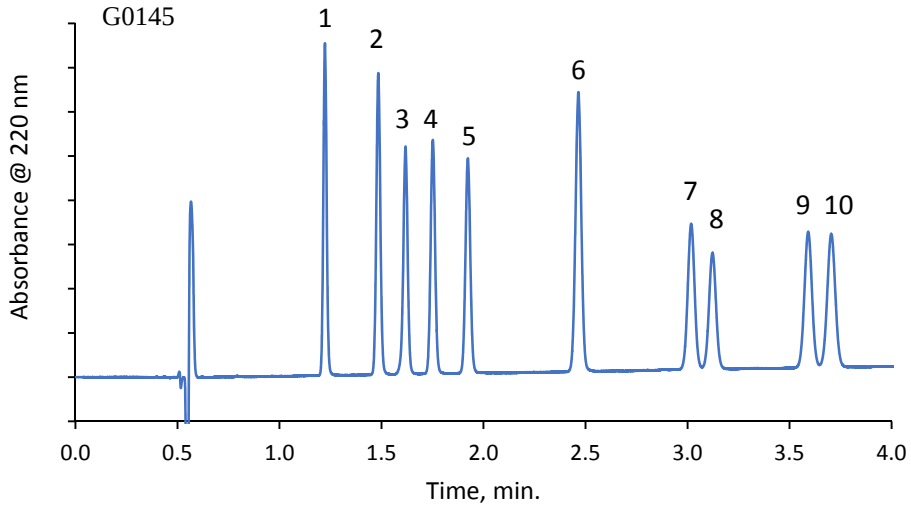
Application Note: 155-CN

Fast Separation of Ten Cannabinoids on HALO C18



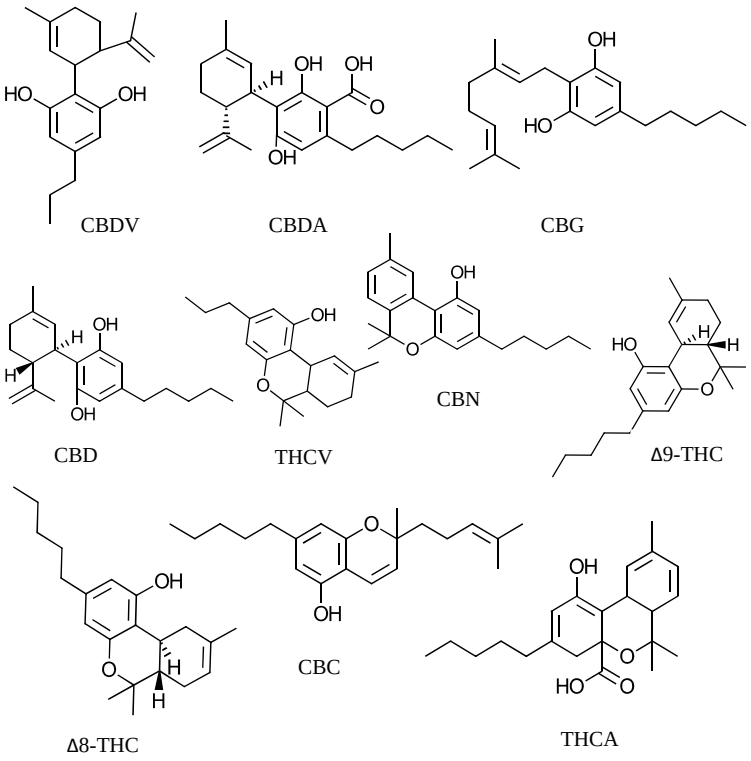
PEAK IDENTITIES:

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

FOR MORE INFORMATION OR TO PLACE AN ORDER, CONTACT: