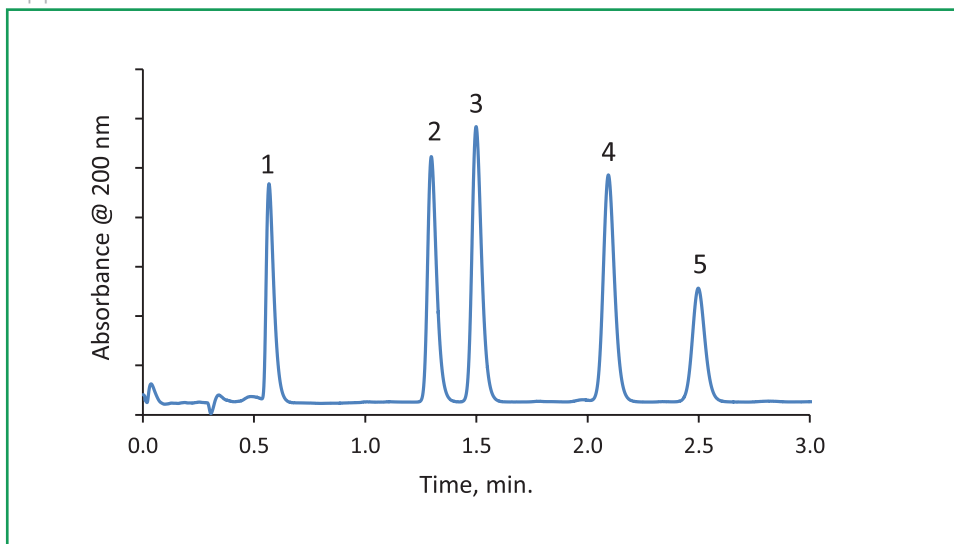




Isocratic Separation of Synthetic Cannabinoids on HALO® C18

Application Note 147-SC



PEAK IDENTITIES:

1. JWH-200
2. (±)-CP 47, 497
3. (±)-CP 47, 497 C8 Homologue
4. JWH-250
5. HU-211

Synthetic cannabinoids are man-made compounds that act like the chemicals found in the marijuana plant. The five compounds in this mixture are illegal and represent only a small number of the variations that exist. Just as one compound is made illegal, another variation will be made to take its place. This represents a growing challenge for law enforcement agencies. Using a HALO C18 column gives a fast, efficient separation of these illegal drugs with ample resolution for the next generation of illegal species.

TEST CONDITIONS:

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

Part Number: 92812-602

Mobile Phase: 25/75 - A/B

A: 5 mM ammonium formate, pH
unadjusted

B: 95/5 acetonitrile/water with 5 mM
ammonium formate

Flow Rate: 0.6 mL/min

Pressure: 247 bar

Temperature: 30 °C

Detection: UV 200 nm, VWD

Injection Volume: 0.5 μL

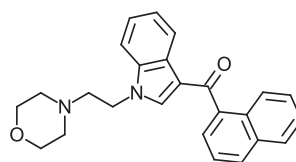
Sample Solvent: 50/50 water/acetonitrile

Data Rate: 50 Hz

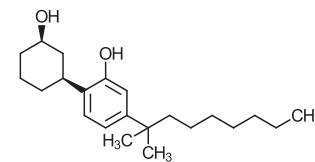
Flow Cell: 2.5 μL semi-micro

LC System: Shimadzu Prominence UFLC XR

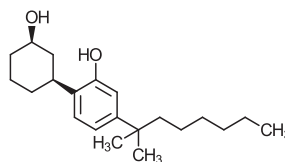
STRUCTURES:



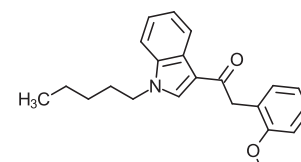
JWH-200



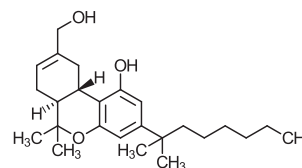
(±)-CP 47, 497 C8 Homologue



(±)-CP 47, 497



JWH-250



HU-211

