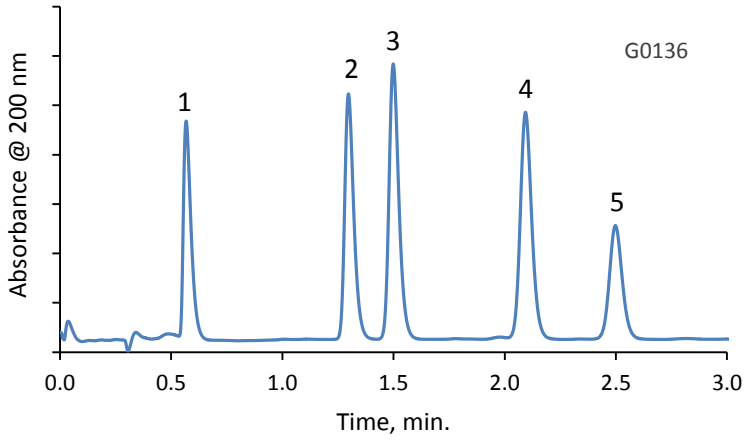
HALO® | Fused-Core® Particle Technology

Application Note: 147-SC

Isocratic Separation of Synthetic Cannabinoids on HALO C18



PEAK IDENTITIES:

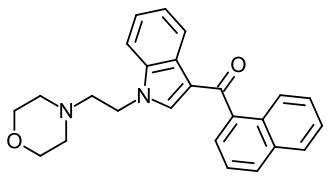
1. JWH-200
2. (±)-CP 47, 497
3. (±)-CP 47, 497 C8 Homologue
4. JWH-250
5. HU-211

TEST CONDITIONS:

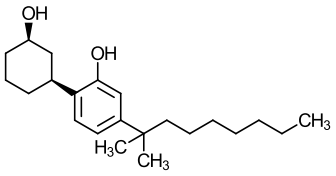
Column: HALO C18, 2.1 x 100 mm, 2.7 µm
Part Number: 92812-602
Mobile Phase: Isocratic: 25/75 A/B
A= 5 mM ammonium formate, pH unadjusted
B= 95/5 acetonitrile/ water with 5 mM ammonium formate
Flow Rate: 0.6 mL/min.
Pressure: 247 bar
Temperature: 30 °C
Injection Volume: 0.5 µL
Sample Solvent: 50/50 water/acetonitrile
Detection: UV 200 nm, VWD
Data Rate: 50 Hz
Flow Cell: 2.5 µL semi-micro
LC System: Shimadzu Prominence UFLC XR

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.

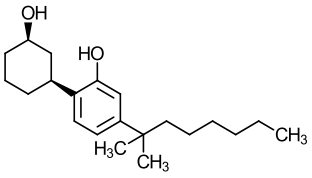
STRUCTURES:



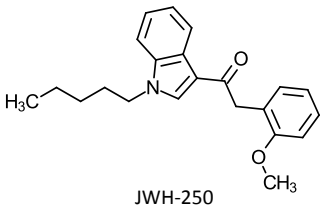
JWH-200



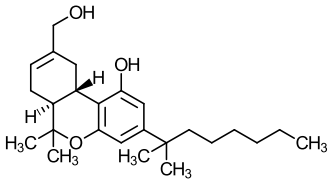
(±)-CP 47, 497 C8 Homologue



(±)-CP 47, 497



JWH-250



HU-211

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