HPLC Analysis of Spice Cannabinoids on Ascentis® Express 2.7 μm F5

Synthetic cannabinoids (e.g. "Spice") are a type of designer drug that provide a cannabis-type high. New synthetic cannabinoids are continually being introduced as suppliers tweak the molecular structures. The ability to rapidly and reliably identify the continually changing population of these compounds is a significant analytical challenge facing forensic chemists. A rapid separation of eight of these compounds on Ascentis Express F5 column is shown here. Cerilliant CRMs provided reliable identification and quantification.

market focus ................................................................. Forensics and Toxicology
column ................................................................. Ascentis Express F5, 10 cm x 2.1 mm I.D., 2.7 μm particles (53569-U)
mobile phase ................................................................. [A] 50 mM ammonium formate; [B] water; [C] acetonitrile; (10:35:55, A:B:C)
flow rate ................................................................. 0.6 mL/min
pressure ................................................................. 4075 psi (281 bar)
column temp. ................................................................. 30 °C
detector ................................................................. UV, 200 nm
injection ................................................................. 3 μL
sample ................................................................. 100 μg/mL in 45:55 water:acetonitrile
Application No. ................................................................. G005446

1. JWH-073 metabolite 5. HU-210, HU-211
2. JWH-200 6. JWH-250
3. CP-47,497 7. JWH-073
4. CP-47,497 C8 homologue 8. JWH-018

Related Products
analytical column
Ascentis® Express F5, 2.7 Micron HPLC Column (Supelco 53569-U)
eluent
Acetonitrile (Fluka 14261)
Ammonium formate (Fluka 14266)
Water (Fluka 14263)
standard
HU-210 solution (Cerilliant S-024)
JWH-018 solution (Cerilliant S-025)
JWH-073 solution (Cerilliant S-027)
JWH-073 3-Hydroxybutyl metabolite solution (Cerilliant S-037)
Spice Cannabinoid Mix solution (Cerilliant S-038)