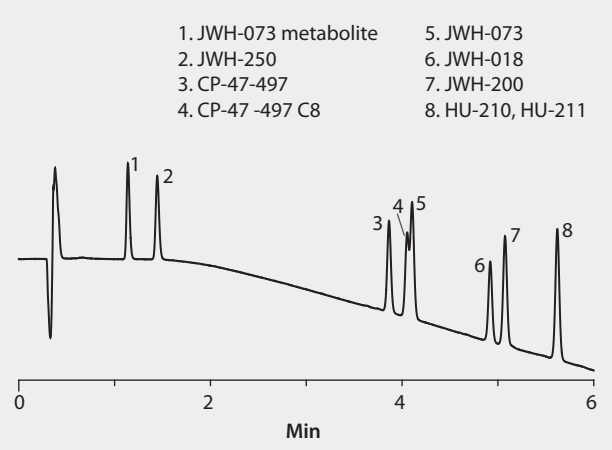
HPLC Analysis of Spice Cannabinoids on Ascentis® Express 2.7 µm C18

Synthetic cannabinoids (e.g. "Spice") are a type of designer drug used to get 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 in the blood or urine suspected users is a significant analytical challenge facing forensic chemists. Here is shown the selectivity provided by C18 phase chemistry on an Ascentis Express C18 column with UV detection. Cerilliant CRMs provided reliable identification and quantification.

market focus	Forensics and Toxicology
column	Ascentis Express C18, 10 cm x 2.1 mm I.D., 2.7 µm particles (53823-U)
mobile phase	[A] 5 mM ammonium formate water; [B] 5 mM ammonium formate (95:5, acetonitrile:water)
gradient	68 to 100% B in 8 min; held at 100% B for 2 min
flow rate	0.6 mL/min
pressure	4351 psi (300 bar)
column temp.	30 °C
detector	UV, 265 nm
injection	3 µL
Application No.	G005740



Components

JWH-073 3-Hydroxybutyl metabolite solution (Cerilliant S-037)
JWH-073 solution (Cerilliant S-027)
JWH-018 solution (Cerilliant S-025)

Related Products

analytical column
Ascentis® Express C18, 2.7 Micron HPLC Column (Supelco 53823-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)