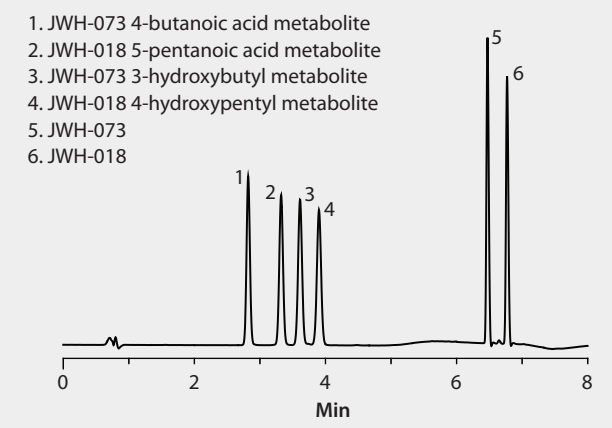
Email: techserv@sial.com

HPLC Analysis of Spice Cannabinoids JWH-018, JWH-073 and Metabolites on Ascentis® Express C18

Synthetic cannabinoids (e.g. "Spice") are a type of designer drug that provides 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 six of these compounds on an Ascentis Express C18 column is shown here. Fluka LC-MS Ultra CHROMASOLV solvents were used to supply low background interference and low particulate contaminants for robust, trouble-free operation. Cerilliant CRMs provided reliable identification and quantification.

market focus	Forensics and Toxicology
column	Ascentis Express C18, 10 cm x 3.0 mm I.D., 2.7 µm particles (53814-U)
mobile phase	[A] 0.1% formic acid in water; [B] 0.1% formic acid in water:acetonitrile (10:90)
gradient	20% B held for 3 min; 20 to 100% B in 0.1 min; 100% B held for 2 min
flow rate	0.5 mL/min
pressure	2150 psi (148 bar)
column temp.	35 °C
detector	UV, 315 nm
injection	2 µL
sample	17 µg/mL each in acetonitrile
Application No.	G005833



Related Products

analytical column
Ascentis® Express C18, 2.7 Micron HPLC Column (Supelco 53814-U)
mobile phase component
Acetonitrile (Fluka 14261)
Water (Fluka 14263)
standard
JWH-018 solution (Cerilliant S-025)
JWH-018 4-Hydroxypentyl metabolite solution (Cerilliant S-035)
JWH-018 5-Pentanoic acid metabolite solution (Cerilliant S-033)
JWH-073 solution (Cerilliant S-027)
JWH-073 4-Butanoic acid metabolite solution (Cerilliant S-036)
JWH-073 3-Hydroxybutyl metabolite solution (Cerilliant S-037)