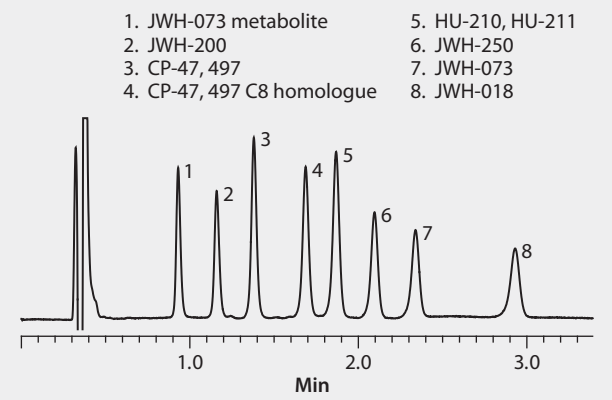
HPLC Analysis of Spice Cannabinoids on Ascentis® Express 2.7 µm F5

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



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