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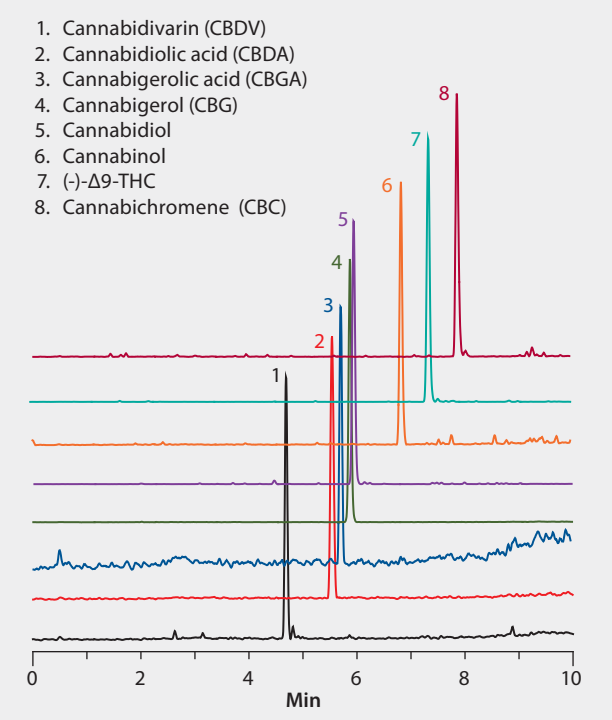
UHPLC/MS Analysis of Cannabinoids on Ascentis® Express C18

Cannabis compounds reportedly have therapeutic efficacy in the treatment of pain, mood disorders, and inflammatory diseases. These standards are used in testing methods by GC/MS, LC/MS, or HPLC for applications in clinical toxicology, testing of cannabis potency or impurity profiling by growers, pharmaceutical research, forensic analysis, and urine drug testing. Shown here is the separation of cannabis compounds on an Ascentis Express C18 column. Highest grade UHPLC 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	Food and Beverages; Forensics and Toxicology
column	Ascentis Express C18, 10 cm x 2.1 mm I.D., 2.0 µm particles (50813-U)
mobile phase	[A] 0.1% formic acid; [B] 0.1% formic acid in acetonitrile
gradient	60% B to 100% B in 10 min
flow rate	0.4 mL/min
pressure	7200 psi (496 bar)
column temp.	35 °C
detector	MS, ESI(+), ESI(-), MRM m/z (see figure for transitions)
injection	1 µL
sample	100 ng/mL each in methanol
Application No.	G1006425



Related Products

analytical column
Ascentis® Express C18, 2 Micron UHPLC Column (Supelco 50813-U)

standard
Cannabichromene solution (Cerilliant C-143)
Cannabidiol solution (Cerilliant C-045)
Cannabidiolic acid solution (Cerilliant C-144)
Cannabidivarin solution (Cerilliant C-140)
Cannabigerol solution (Cerilliant C-141)
Cannabigerolic acid solution (Cerilliant C-142)
Cannabinol solution (Cerilliant C-046)
(–)-Δ^9-THC solution (Cerilliant T-005)