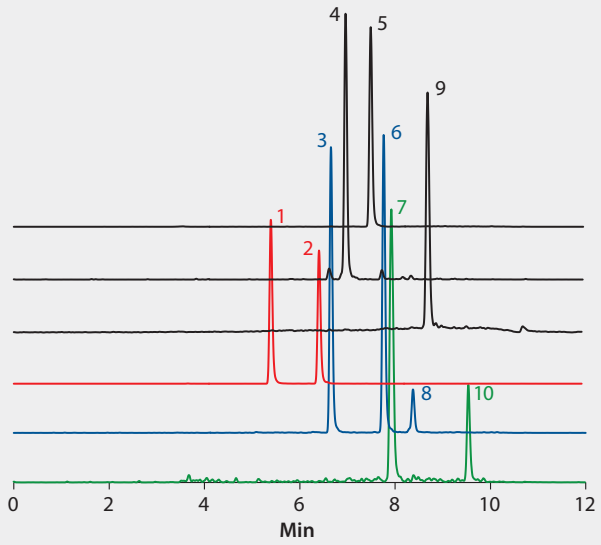
UHPLC/MS Analysis of Ten Cannabinoids on Ascentis® Express RP-Amide

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 RP-Amide 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; Vitamins, Nutraceuticals, and Natural Products
column . . . . . Ascentis Express RP-Amide, 10 cm x 2.1 mm I.D., 2.0 µm particles (53913-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 . . . . . 7600 psi (524 bar)
column temp. . . . . 35 °C
detector . . . . . MS, ESI(+), ESI(-), MRM
injection . . . . . 1 µL
sample . . . . . 1000 ng/mL each in methanol
Application No. G1006677

Peak	Name	m/z
1	Cannabidivarin (CBDV)	287
2	Tetrahydrocannabivarin (THCV)	287
3	Cannabidiol	315
4	Cannabigerol (CBG)	317
5	Cannabinol	311
6	(-)-Δ^9-THC	315
7	Cannabidiolic acid (CBDA)	359
8	Cannabichromene (CBC)	315
9	Cannabigerolic acid (CBGA)	359 ESI(-)
10	Δ^9-Tetrahydrocannabinolic acid A (THCA-A)	359



Related Products

analytical column
Ascentis® Express RP-Amide, 2.7 Micron HPLC Column (Supelco 53913-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)
Tetrahydrocannabivarin (THCV) solution (Cerilliant T-094)
Δ^9-Tetrahydrocannabinolic acid A (THCA-A) solution (Cerilliant T-093)