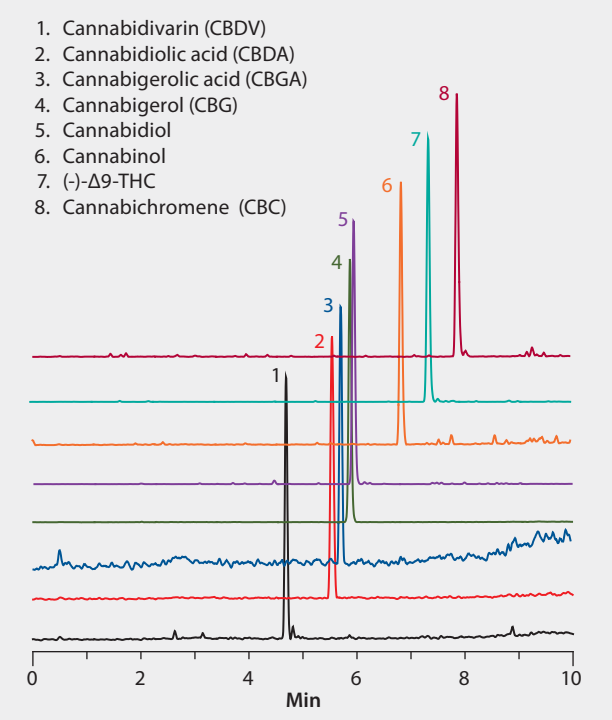
Email: techserv@sial.com

# 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)
(–)-$\Delta^9$-THC solution (Cerilliant T-005)