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# HPLC Analysis of Cannabinoids using Ascentis® Express RP-Amide

The rapid growth of the cannabis testing market has prompted the development of equally rapid methods to analyze the active ingredients. Shown here is the separation of cannabis compounds on an Ascentis Express RP-Amide column. The selectivity, and therefore resolution, is unique to the amide bonded phase chemistry. 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.

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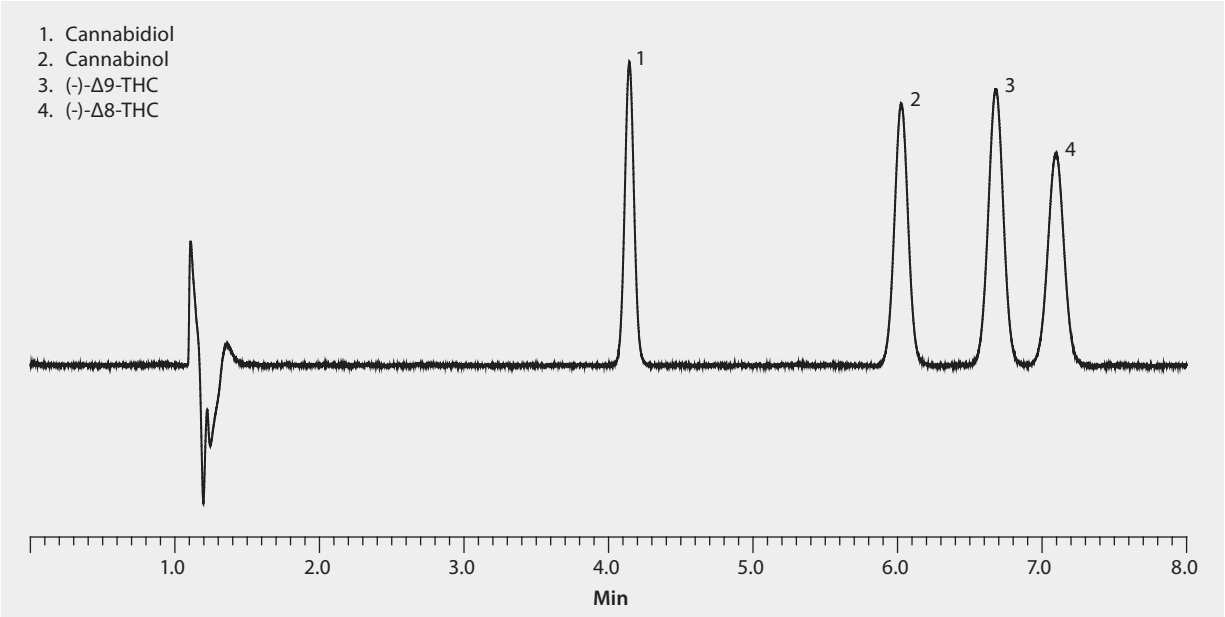
|---|---|
| market focus | Forensics and Toxicology |
| column | Ascentis Express RP-Amide, 15 cm x 4.6 mm I.D., 5 µm particles (50774-U) |
| mobile phase | 5 mM ammonium acetate (pH 4.5 with acetic acid) in 20:80, acetonitrile:water |
| flow rate | 1.0 mL/min |
| pressure | 1450 psi (100 bar) |
| column temp. | 35 °C |
| detector | UV, 214 nm |
| injection | 5 µL |
| sample | 4 cannabinoids 50 µg/mL 50:50, water:methanol |
| Application No. | G006303 |




**Related Products**

**analytical column**
Ascentis® Express RP-Amide, 5 Micron HPLC Column (Supelco 50774-U)
**mobile phase component**
Acetic acid (Fluka 49199)
Acetonitrile (Fluka 14261)
Ammonium acetate (Fluka 14267)
**standard**
Cannabidiol solution (Cerilliant C-045)
Cannabinol solution (Cerilliant C-046)
(–)-$\Delta^8$-THC solution (Cerilliant T-032)
(–)-$\Delta^9$-THC solution (Cerilliant T-005)