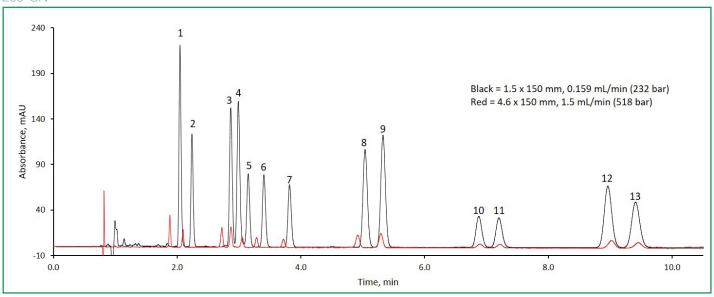


## **CANNABIS**



## Sensitivity and Solvent Savings using a 1.5 mm ID Column with Cannabinoids

283-CN



## **PEAK IDENTITIES**

- 1. CBDVA
- 2. CBDV
- 3. CBDA
- 4. CBGA
- 5. CBG6. CBD
- 7. THCV
- 8. THCVA
- 9. CBN
  10. 9-THC
- 11. 8-THC
- 12. CBC

## **TEST CONDITIONS:**

**Column:** HALO 90 Å C18, 2.7 μm, 1.5 x 150 mm

Part Number: 9281X-702

Column: HALO 90 Å C18, 2.7 µm, 4.6 x 150mm Mobile Phase A: Water/ 0.1% Formic Acid Mobile Phase B: Acetonitrile/ 0.1% Formic Acid

Isocratic: 75% B

Flow Rate: 0.159 mL/min (1.5x150) Flow Rate: 1.5 mL/min (4.6x150) Temperature: 30 °C

**Detection:** UV 228 nm, PDA **Injection Volume:** 0.5 μL

Sample Solvent: 75/25 ACN/ Water

13. THCA

Data Rate: 100 Hz

Response Time: 0.025 sec.

Flow Cell: 1 µL

LC System: Shimadzu Nexera X2

A separation of cannabinoids is performed on a HALO 90 Å C18 column. Switching from a 4.6 mm ID to a 1.5 mm ID column diameter increases overall sensitivity along with significantly reducing solvent consumption. The extra column volume has been reduced by optimizing the pre/post-column tubing as well as the flow cell. This makes the 1.5 mm ID column an ideal candidate for increased sensitivity without the investment into a specialized low flow HPLC system.



