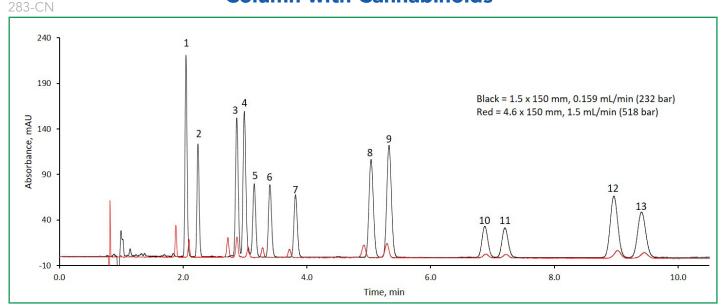
## HALO

CANNABIS



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



## **PEAK IDENTITIES**

1. CBDVA

CBDV
 CBDA

4. CBGA

- 5. CBG 6. CBD 7. THCV 8. THCVA
- 9. CBN
  10. 9-THC
  11. 8-THC
  12. CBC

13. THCA

## **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 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.



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