HALO

CANNABIS



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



PEAK IDENTITIES

1.	CBDVA	5.	CBG
2.	CBDV	6.	CBD
3.	CBDA	7.	THCV
4.	CBGA	8.	THCVA

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)

9. CBN 10. 9-THC 11. 8-THC 12. CBC

13. THCA

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 can-

didate for increased sensitivity without the investment into a specialized low flow HPLC system.



AUTHORIZED DISTRIBUTOR

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