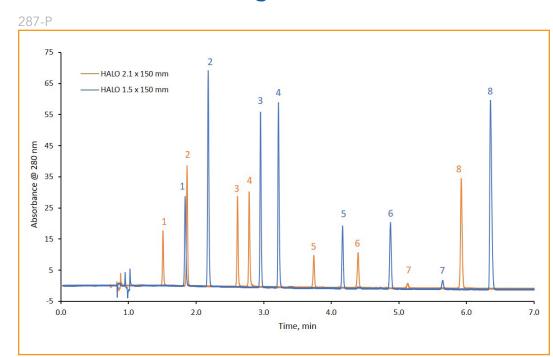
HALO

PHARMACEUTICALS

Increased Sensitivity in Small Molecule Applications with Cough & Cold Medications



PEAK IDENTITIES

- 1. Phenylephrine
- 2. Acetaminophen
- 3. Caffeine
- 4. Doxylamine
- 5. Guiafenesin
- 6. Aspirin
- 7. Salicylic Acid
- 8. Dextromethorphan

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, 2.1 x 150 mm Mobile Phase A: Water/ 0.15% TFA Mobile Phase B: ACN/ 0.1% TFA Gradient: Time(min) %В 0.0 5 8.0 50 100 9.0 9.5 5 5 13.0 Flow Rate: 0.2 mL/min for 1.5 mm 0.4 mL/min for 2.1 mm Pressure: 425 bar/1.5 mm 470 bar/2.1 mm Temperature: 35 °C Detection: UV 280 nm, PDA Injection Volume: 0.5 µL Data Rate: 100Hz Response Time: 0.025 sec. Flow Cell: 1 µL Instrument: Shimadzu Nexera X2

A separation of eight different small molecules commonly found in cough and cold medicines is performed on a HALO 90 Å C18 column. The comparison shown on the chromatogram illustrates the overall increase in sensitivity when switching from a larger ID column to the smaller 1.5 mm ID column. Extra column volume was reduced by optimizing the post-column tubing. This increase in sensitivity is seen in peak height and area counts, making the switch to a 1.5 mm column ideal for those trying to get more sensitivity out of their UHPLC system without the investment into a micro flow HPLC system.



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