HALO®

PHARMACEUTICALS

Separation of Reserpine on PCS C18

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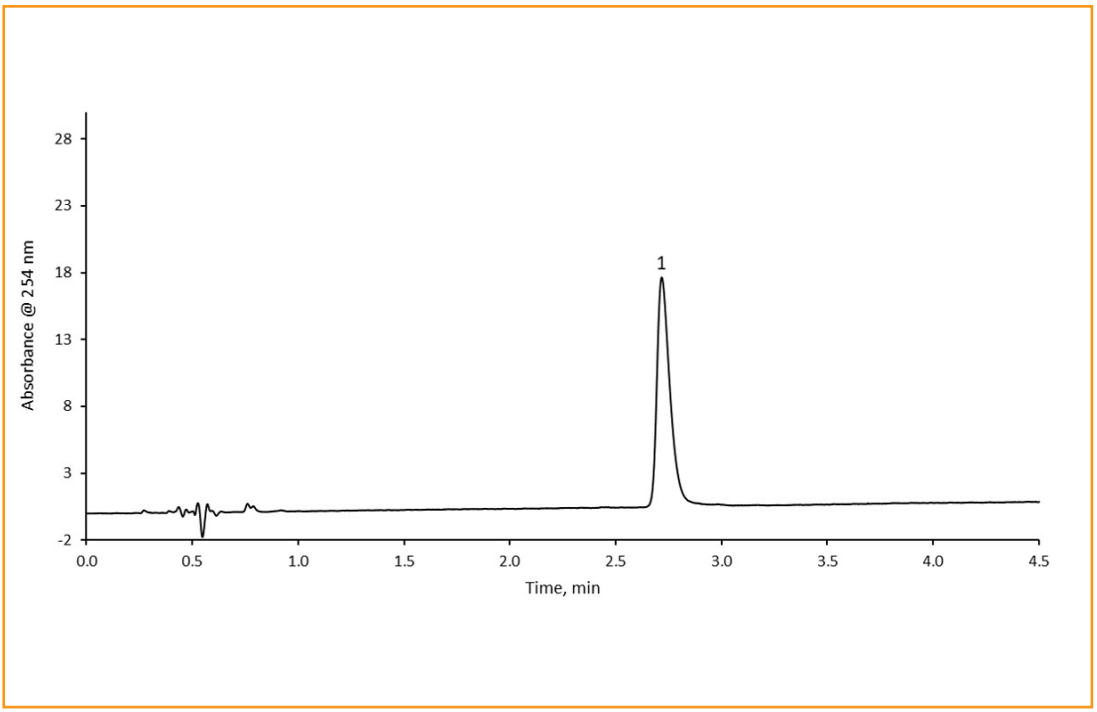

PEAK IDENTITIES

1. Reserpine

TEST CONDITIONS:

Column: HALO 90 Å PCS C18, 2.7 µm, 2.1 x 100 mm
Part Number: 92812-617
Mobile Phase A: Water, 0.1% Formic Acid
Mobile Phase B: Acetonitrile, 0.1% Formic Acid
Isocratic: 26 %B
Flow Rate: 0.4 mL/min
Back Pressure: 239 bar
Temperature: 30 ºC
Injection: 1.0 µL
Sample Solvent: 75/25 Water/ACN
Sample [C] = 50µg/mL
Wavelength: PDA, 254 nm
Flow Cell: 1 µL
Data Rate: 100 Hz
Response Time: 0.025 sec.
LC System: Shimadzu Nexera X2

Reserpine is a drug used to treat high blood pressure and help reduce the mortality of people with hypertension. The alkaloid nature of reserpine can make it difficult to elute from a standard C18 column with good peak shape. Most basic compounds exhibit tailing on a standard C18 column using low ionic strength mobile phase, but with the PCS (positively charged surface) C18 phase the tailing of reserpine diminishes significantly. Using the HALO 90 Å PCS C18 phase can help reduce tailing of basic compounds and allow for better separations that include alkaloid materials in the sample when using mobile phase additives such as formic acid.

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