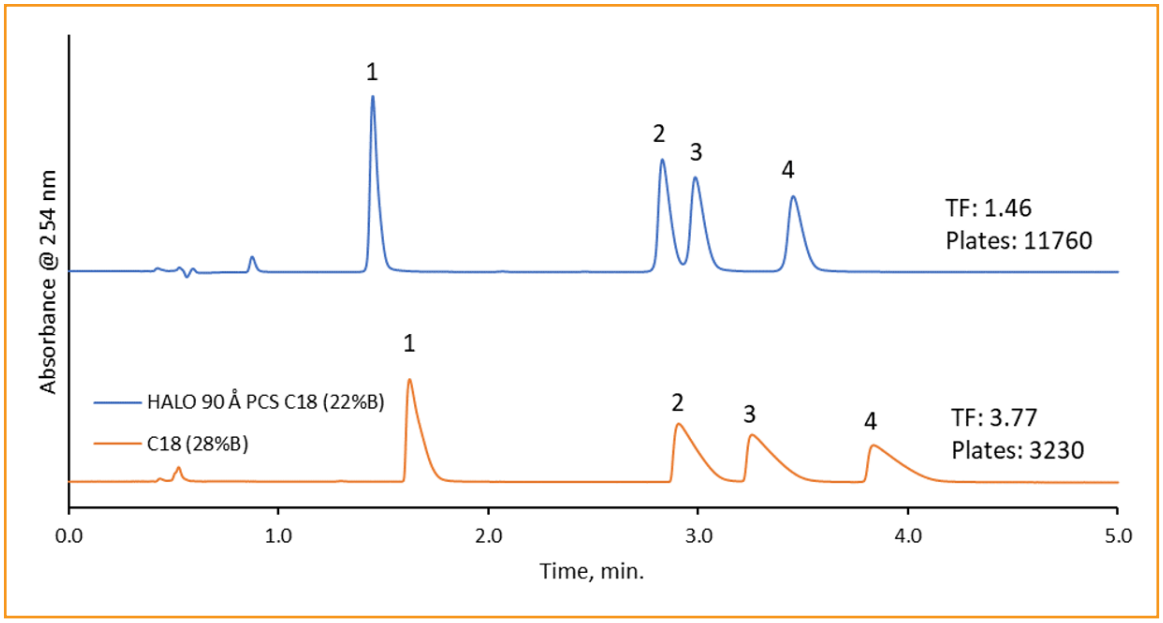
HALO®

PHARMACEUTICALS

Separation of Antidepressants Using HALO 90 Å PCS C18 Compared to C18



TEST CONDITIONS:

Column: HALO 90 Å PCS C18, 2.7µm, 2.1 x 100 mm
Part Number: 92812-617
Column: C18, 2.7 µm, 2.1 x 100 mm
Mobile Phase A: Water, 0.1% Formic Acid
Mobile Phase B: Acetonitrile, 0.1% Formic Acid
Isocratic: HALO® PCS C18: 22 %B
C18: 28 %B
Flow Rate: 0.4 mL/min
Back Pressure: 242 bar
Temperature: 30 °C
Injection: 0.5 µL (31 µg)
Sample Solvent: 75/25 Water/ACN
Wavelength: PDA, 254 nm
Flow Cell: 1 µL
Data Rate: 40 Hz
Response Time: 0.05 sec.
LC System: Shimadzu Nexera X2

PEAK IDENTITIES

1. Doxepin
2. Nortriptyline
3. Amitriptyline
4. Trimipramine

Tricyclic antidepressants (TCAs) are considered first generation antidepressants. A mix of four of the these antidepressants is separated using the HALO 90 Å PCS C18 column. The positive charged surface (PCS) stationary phase is ideal for basic analytes when using low ionic strength mobile phases such as formic acid. Improved tailing factor and efficiency are observed when compared to a traditional (uncharged) C18 stationary phase.

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