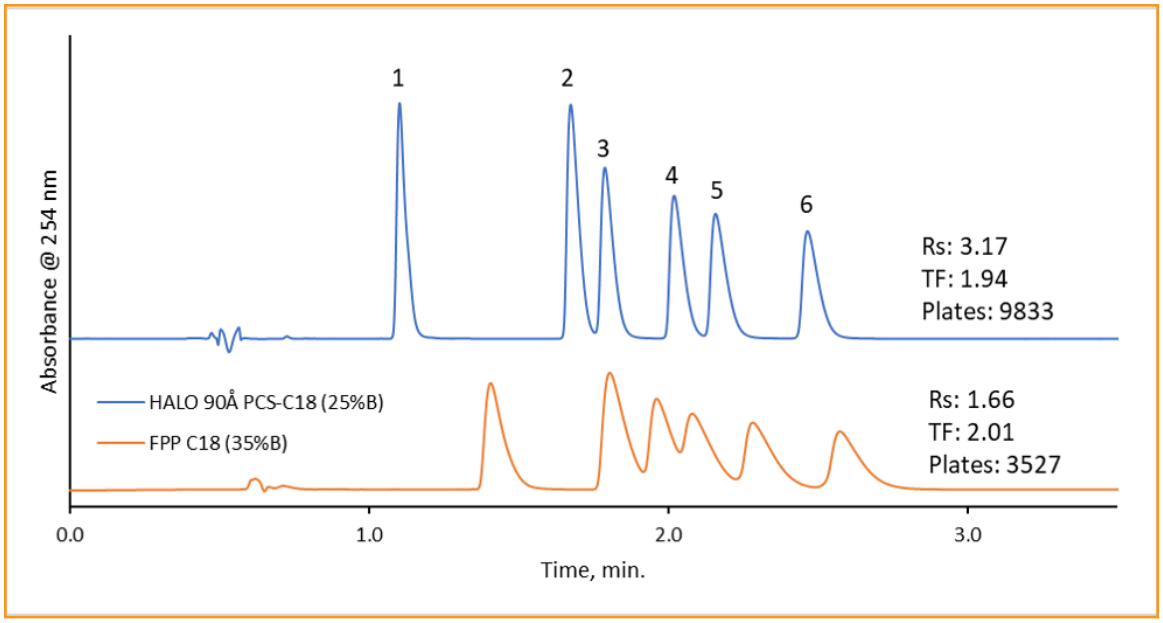
HALO®

PHARMACEUTICALS

Separation of Antidepressants Using HALO 90 Å PCS C18



TEST CONDITIONS:

Column: HALO 90 Å PCS C18, 2.7 µm, 2.1 x 100 mm
Part Number: 92812-617
Competitor Column: FPP C18, 3 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: 25 %B
FPP C18: 35 %B
Flow Rate: 0.4 mL/min
Back Pressure: 267 bar
Temperature: 35 °C
Injection: 0.5 µL (40 µg)
Sample Solvent: 75/25 Water/ ACN
Wavelength: PDA, 254 nm
Flow Cell: 1 µL
Data Rate: 100 Hz
Response Time: 0.025 sec.
LC System: Shimadzu Nexera X2

PEAK IDENTITIES

1. Doxepin
2. Desipramine
3. Imipramine
4. Nortriptyline
5. Amitriptyline
6. Trimipramine

Tricyclic antidepressants (TCAs) are a class of drugs primarily used to manage depression. A separation of antidepressants is achieved 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. Sample loading is also improved compared to more traditional C18 columns on the market.

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