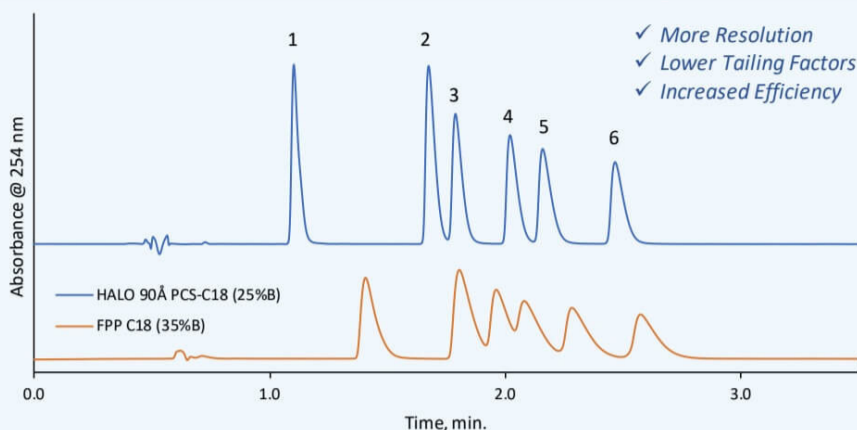


Sie profitieren von der der HALO® PCS C18 durch

Höhere Probenbeladung von basischen Verbindungen im Vergleich zu vollporösen C18-Säulen

As shown in this basic drug panel of antidepressants, the HALO® Fused-Core® PCS technology tolerates a higher sample load of basic compounds compared to the competitor fully porous 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.



- ✓ More Resolution
- ✓ Lower Tailing Factors
- ✓ Increased Efficiency

TEST CONDITIONS:

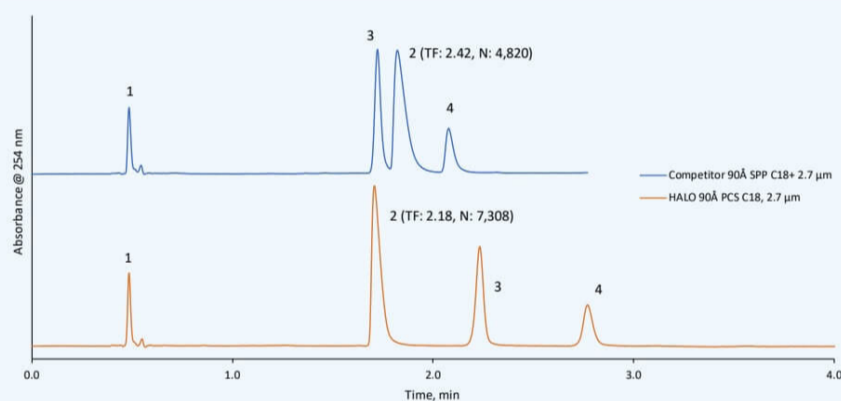
Column: HALO 90 Å PCS C18, 2.7 μm, 2.1 x 100 mm
 Part Number: 92812-617
 Competitor Column: FPP C18, 3 μm, 2.1 x 100 mm
 Mobile Phase A: Water, 0.1% Formic Acid
 Mobile Phase B: Acetonitrile, 0.1% Formic Acid
 Isocratic: HALO® PCS C18: 25% B
 FPP C18: 35% B
 Flow Rate: 0.4 mL/min
 Back Pressure: 267 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 | 3. Imipramine | 5. Amitriptyline |
| 2. Desipramine | 4. Nortriptyline | 6. Trimipramine |

Bessere Auflösung, verbesserte Tailing-Faktoren und mehr Böden im Vergleich zu SPP C18+ Säulen der Konkurrenz

In a head to head comparison of SPP columns, HALO® PCS C18 delivers better resolution, improved tailing factors and more plates over the leading competitor.



TEST CONDITIONS:

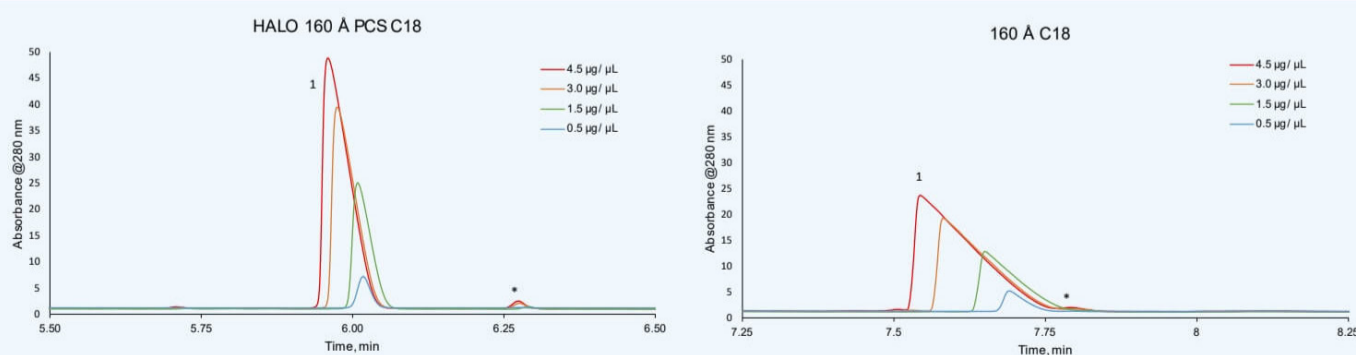
Column: HALO 90 Å PCS C18, 2.7 μm, 2.1 x 100 mm
 Part Number: 92812-617
 Mobile Phase:
 A: Water, 0.1% Formic Acid
 B: Acetonitrile, 0.1% Formic Acid
 Isocratic: HALO® PCS C18: 24% B
 Competitor C18+: 26% B
 Flow Rate: 0.4 mL/min
 Back Pressure: 238 bar
 Temperature: 35 °C
 Injection: 0.5 μL
 Sample Solvent: 70/30 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. Uracil | 2. Imipramine | 3. 4-Methoxybenzoic Acid | 4. 2-Chlorobenzoic Acid |
|-----------|---------------|--------------------------|-------------------------|

Verbesserte Peakform und Auflösung für Peptide im Vergleich zu herkömmlichen C18-Phasen

A HALO 160 Å PCS C18 column outperforms a traditional C18 column under formic acid conditions due to its positive charge surface, allowing for improved peak shape and resolution for peptides. PCS C18 also allows for a higher sample load on column for basic analytes and could potentially help pull apart closely retained impurities as seen below.



PEAK IDENTITIES:

1. 5Y Sequence: Ac-RGWGLYLK-NH₂ (1102 Da)
 * Impurity

TEST CONDITIONS:

Column: HALO 160 Å PCS-C18, 2.7 μm, 4.6 x 100 mm
 Part Number: 92814-617
 Mobile Phase A: Water/ 0.1% Formic Acid
 Mobile Phase B: Acetonitrile/ 0.1% Formic Acid
 Gradient: Time % B
 0.0 0
 10.0 35

Flow Rate: 1.5 mL/min
 Pressure: 309 bar
 Temperature: 30 °C
 Injection Volume: 1, 5, 10, 15 μL (0.3 μg/μL)
 Wavelength: PDA, 280 nm
 Flow Cell: 1 μL
 Data Rate: 100 Hz
 Response Time: 0.025 sec.
 LC System: Shimadzu Nexera X2