

Paracetamol and Related Substances – Correcting for Column Volume

Application #AN4750

Conditions
Column: (I) ACE 5 C18-PFP; (II) ACE Excel 1.7 C18-PFP
Dimensions: (I) 150 x 4.6 mm; (II) 50 x 3.0 mm
Part Number: (I) ACE-1210-1546; (II) EXL-1710-0503U
Mobile Phase: A: 20 mM ammonium acetate pH 6.0 in H₂O
B: 20 mM ammonium acetate pH 6.0 in MeCN/H₂O (80:20 v/v)

150 x 4.6 mm Time (mins)	50 x 3.0 mm Time (mins)	%B
0.0	0.00	5
15.0	1.70	95
17.0	1.93	95
17.5	1.99	5

Flow Rate: (I) 1 mL/min; (II) 1.25 mL/min
Injection: (I) 5 µL; (II) 0.7 µL
Temperature: 40 °C
Detection: UV, 230 nm
Sample: Paracetamol and related impurities spiked at 0.5% (w/w)

Failing to accurately translate methods from one column format to another can lead to loss of resolution and performance, as shown by Chromatogram C.

