

Cadenza CD-C18

500 x 4.6 mm

Technical

Efficiency of 500 x 4.6mm ODS Column

Revolutionary 3µm technology...the 100,000 theoretical plate column

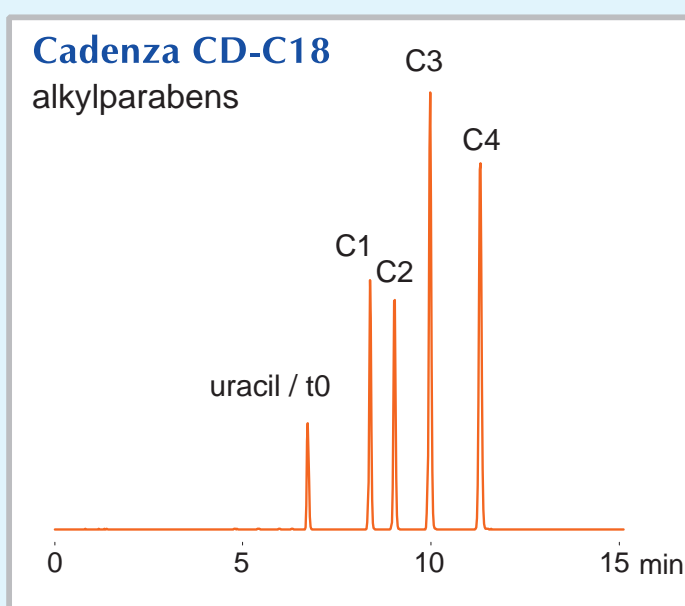


plate count

t0	109,300
C1	110,200
C2	108,300
C3	105,400
C4	102,500

Cadenza CD-C18
500 x 4.6 mm
water / acetonitrile = 20 / 80
0.7 mL/min
room temp.
270 nm
13.6 MPa

The high-efficiency 3µm Cadenza CD-C18 250 x 4.6mm offers 50,000 plates per column. When you require additional separation efficiency, one option is to connect two 250 x 4.6mm to get 100,000 plates. With this method, however, it is actually difficult to achieve 100,000 plates because of diffusion in the end-fitting and column coupler.

The above chromatogram shows the performance on a new Cadenza column that is two times the size or 500mm in length. In the separation of parabens the 500mm column provides over 100,000 plates for every peak, even for uracil, used as a void marker. The 500mm Cadenza CD-C18 offers twice the performance against the same Cadenza packings, 250 x 4.6mm offers 50,000 plates, which proves the packing method is well optimized.

Our technology combines low pressure and high theoretical plates to provide the 3µm, 500mm columns. The 500mm length column offers superior resolution compared to connecting two 250 x 4.6mm columns.