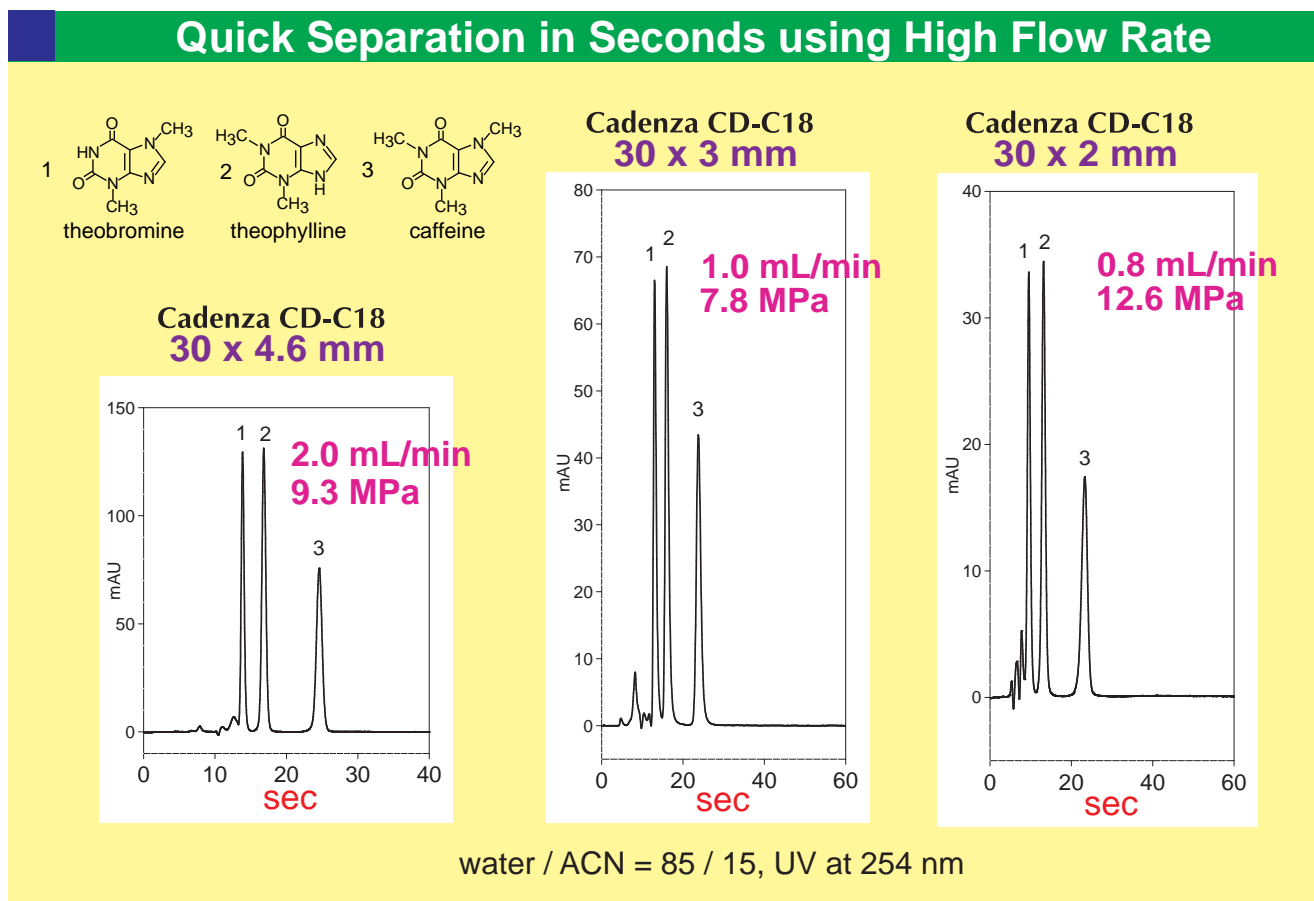


Cadenza CD-C18 30 x 4.6 mm 30 x 3 mm 30 x 2 mm Technical
 High Speed Separation through Small Columns



This data shows the impressive high-speed separation achieved by using the small column Cadenza CD-C18.

Cadenza CD-C18's unique 3µm small particle packing gel offers high resolution with the efficiency benefits of a small column. We tested high-speed isocratic separation of caffeine, a highly polar chemical compound, utilizing three 30mm columns with different diameters.

We achieved high-speed separation in less than 30 seconds by setting the flow rate for each diameter at 2-4 times the usual rate.

High-speed separation with small columns leads to a higher flow rate that results in (1) reducing void time, (2) high-speed elution without changing separation behavior, and (3) lower solvent consumption when using a small diameter column.

With few ingredients and a sufficient degree of separation between solutes, small column high-speed separation and greater efficiency in analytical work is possible. High-resolution Cadenza CD-C18 challenges today's standard beliefs by making high-speed separation simple.