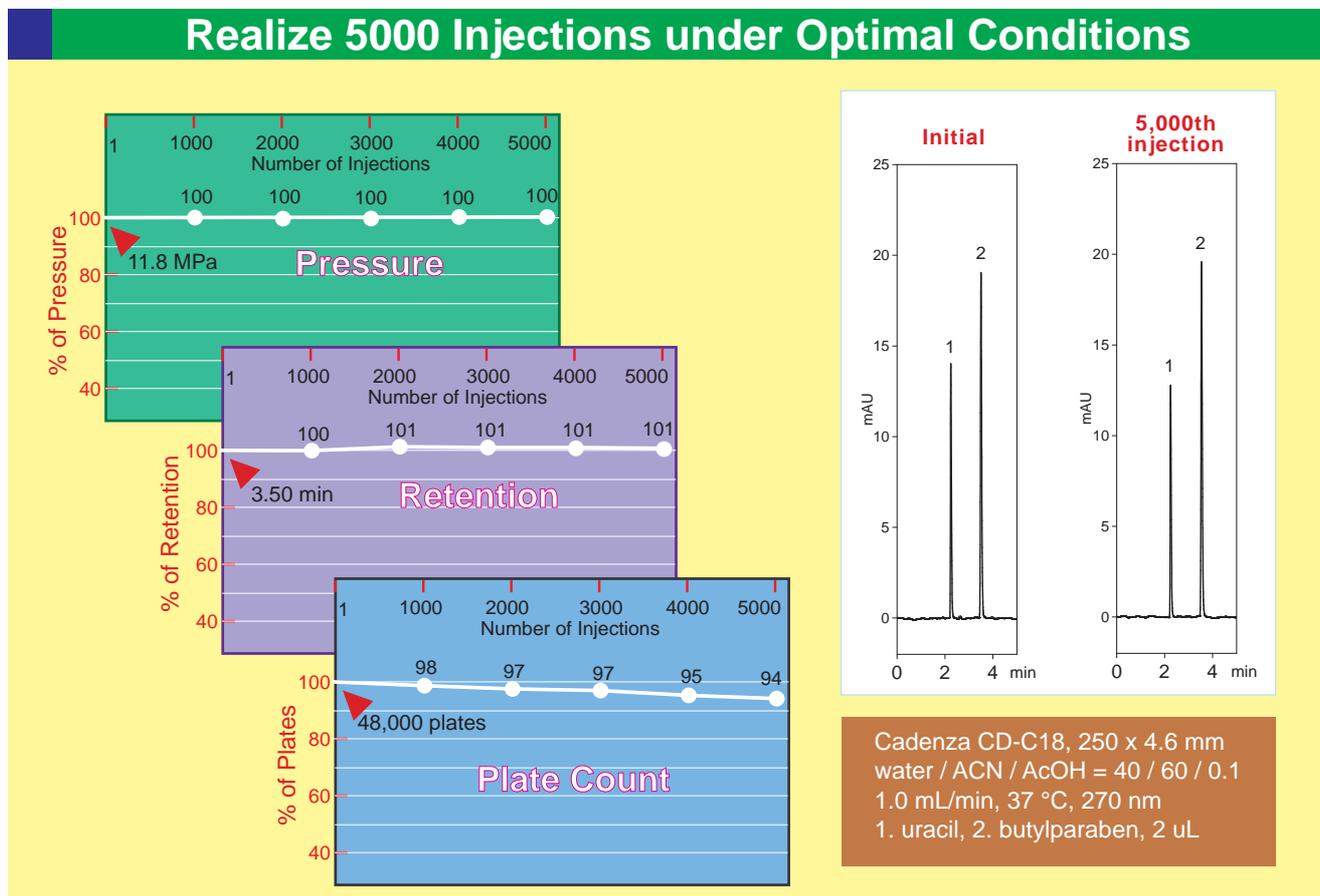


Cadenza CD-C18

250 x 4.6 mm

Technical

Column Durability through Repeat Injections



This data shows the column life of Cadenza CD-C18 under inspection conditions.

Cadenza CD-C18 250 x 4.6mm, packed with the small 3um particle, offers a remarkable 50,000 plates. The above data shows the result of an experiment on how long this high level of results can be maintained. Possible reasons for the deterioration of columns include injection-time shock and packing change due to mobile phase flow.

We conducted a repeat injection experiment with an optimized Cadenza. The resulting packing situation yielded over 90% the normal plate numbers even after 5000 injections. There was little effect on column life and column pressure as well.

The column life changes dramatically with temperature, pH and mobile phase composition. While this experiment's results may not apply to all situations, the 3um 250mm ODS column offers the highest efficiency in processing the most samples possible.