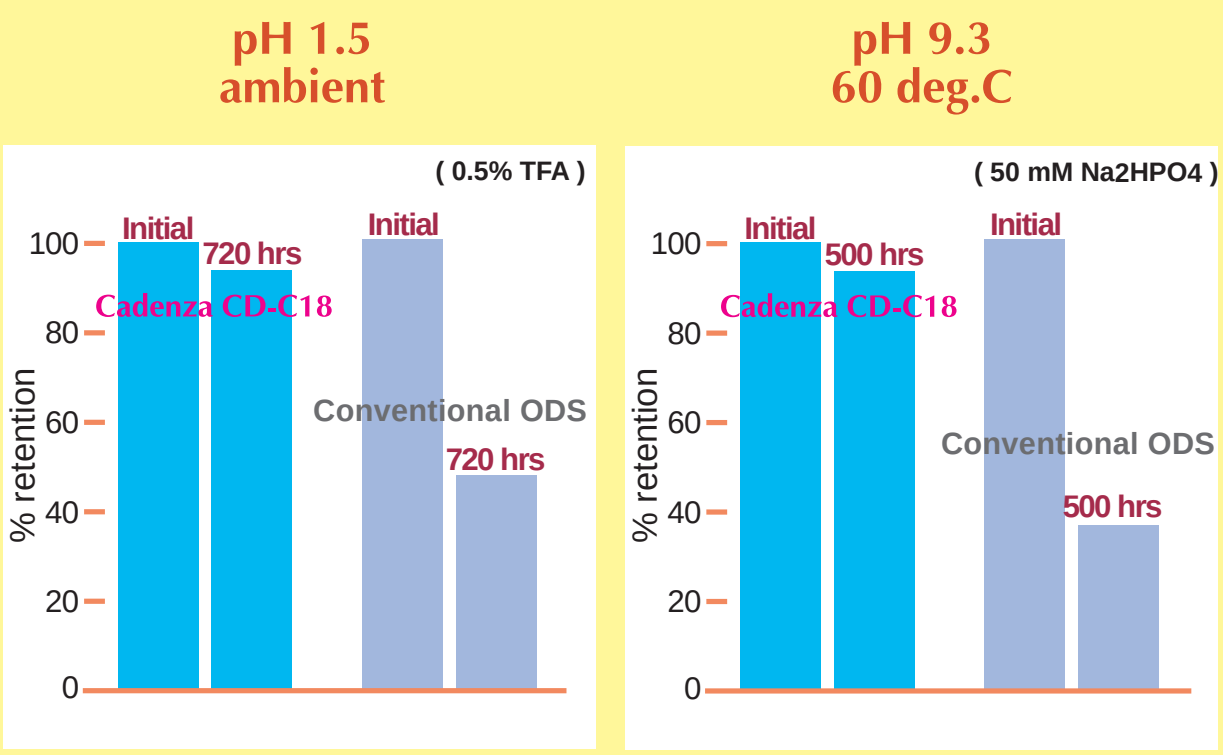
Cadenza CD-C18 Technical

pH Stability in the Stationary Phase

Enlarge the pH range compared with conventional columns



This data shows the pH stability using Cadenza in the stationary phase.

In the water eluent of acids and alkalis not including organic solvents, we measured the rate of change in column durability after a constant period of exposure to solvent.

Conventional ODS columns showed a huge change in column life with acidic and alkali eluents. The cause of this is hydrolysis degradation of the stationary phase ODS and endcapping functional group. The pH used in the experiment was outside that used with conventional columns. These severe conditions were not applicable to these columns.

Cadenza CD-C18, however, can handle these severe conditions. There is little change in retention and there is a high binding strength despite the stationary phase's difficulty in handling hydrolysis. This is one of many points proving the power of polymeric endcapping, the most superior design technology for the stationary phase.

By using Cadenza CD-C18, you will no longer face the traditional problems moving from low pH to high pH in the mobile phase. Finding a new durability in your columns, discover the Cadenza advantage.