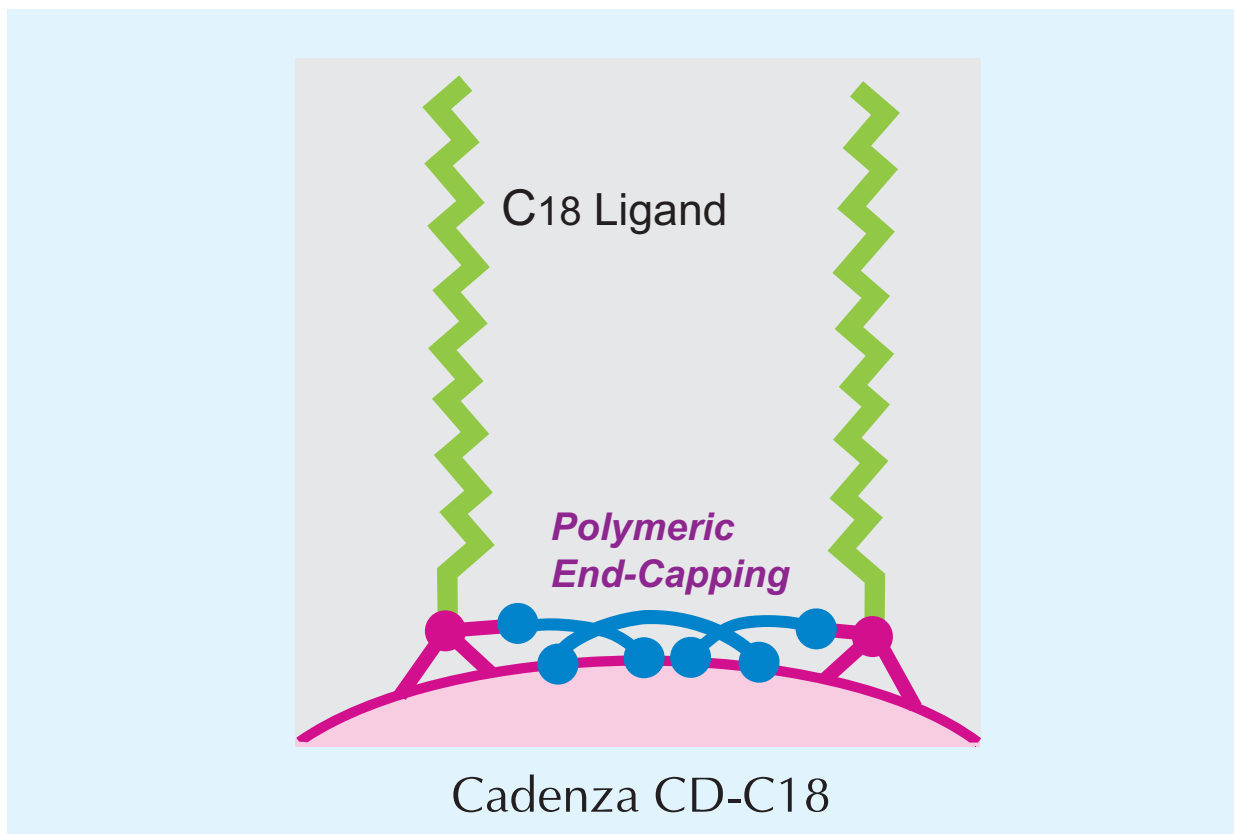


Novel End-Capped C18 Phase



Cadenza CD-C18 employs a unique end-capping method that revolutionizes traditional stationary phase concepts, in addition to utilizing 3 μ m silica particle processing technology. After introducing ODS ligands, a chemically bonded polymer structure is applied to the surface to address residual silanols. This not only chemically reduces the amount of residual silanols but also provides a physical shielding effect. As a result, a novel and unique stationary phase surface structure has been achieved, which can more effectively eliminate the influence of silanols compared to conventional columns.

This newly developed "polymeric end-capping" is considered an effective modification method that addresses various issues related to the surface condition of the stationary phase, such as:

- Improved peak shape for basic compounds caused by silanols.
- Enhanced acid and alkali resistance caused by silanols.
- Elimination of the impact of residual metal impurities on the stationary phase surface, leading to improved peak shape for coordinating compounds.

Cadenza CD-C18 is designed with 3 μ m particles as the standard, offering an excellent balance between column pressure and performance. This design allows for a wide range of column lengths, from ultra-fast 10mm to high-resolution 500mm, to be selected.