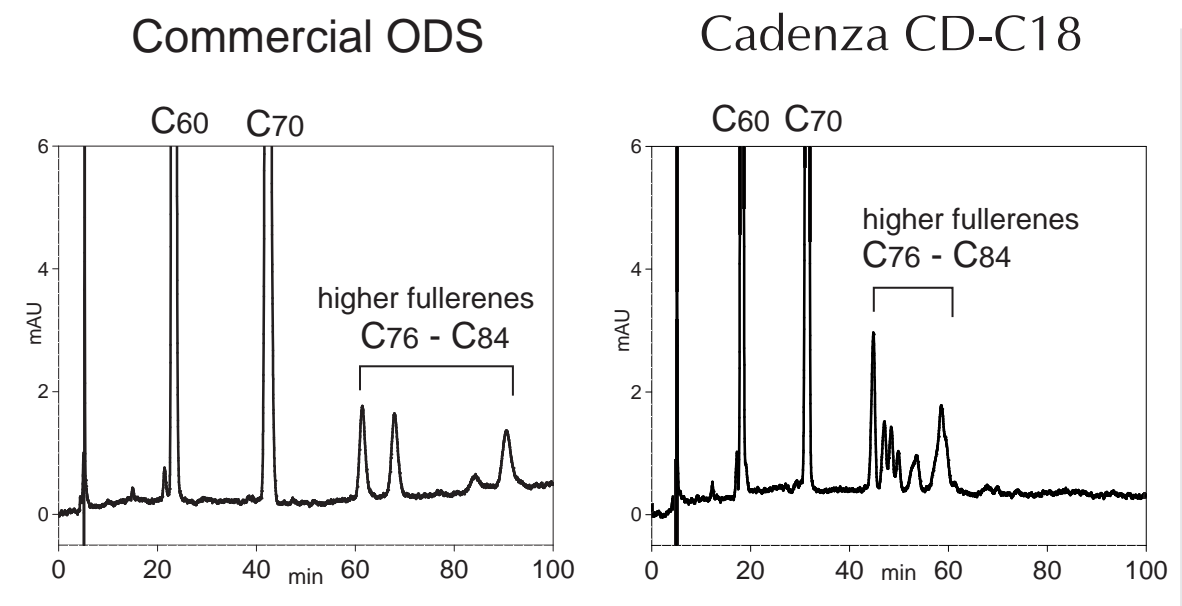


Cadenza CD-C18

250 x 4.6 mm

Technical

Separation Comparison of Fullerenes



250 x 4.6 mm, hexane / 2-propanol = 40 / 60  
0.6 mL/min, 30 °C, UV at 325 nm

Large higher fullerenes exist in addition to C60 and C70. Isomers are present in these fullerenes and the ability to separate isomers with reversed-phase separation is often-discussed.

A separation comparison of a conventional 5µm monomeric ODS column to Cadenza CD-C18 yields the above results and clear disparities in separation behavior. The number of peaks for C76-C84 homologues and isomers clearly demonstrates Cadenza's superior results.

Cadenza's high steric selectivity contributes to more efficient separation of higher fullerenes. In addition, Cadenza recognizes bulky molecules with hydrophobicity better than conventional columns.