

Daicel Columns for SFC

Daicel polysaccharide columns are well established for use in SFC separations. In addition to the benefits of speed of separation, speed of method development and improved column efficiency, green SFC technology reduces the use of organic solvents. Although the standard Daicel analytical HPLC columns (see pages 81- 84) can be used in SFC, semi-preparative CHIRALPAK and CHIRALCEL SFC columns are packed specifically to withstand the higher pressures of SFC.

Screening is recommended on the four main immobilized phases (IA, IB, IC and ID) and the four main coated columns (AD, OD, AS and OJ) with varying concentrations of organic modifier. Figures 14 and 15 illustrate the fast and efficient analyses possible using Daicel SFC columns.

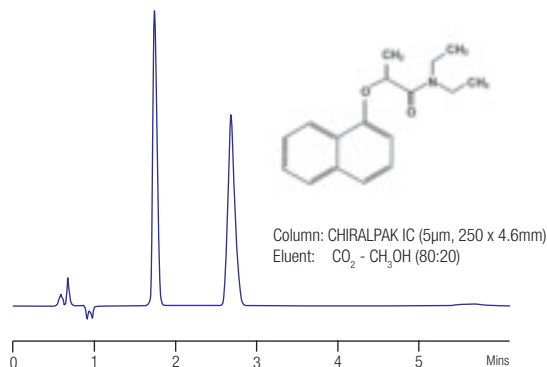


Figure 14. SFC separation of devrinol

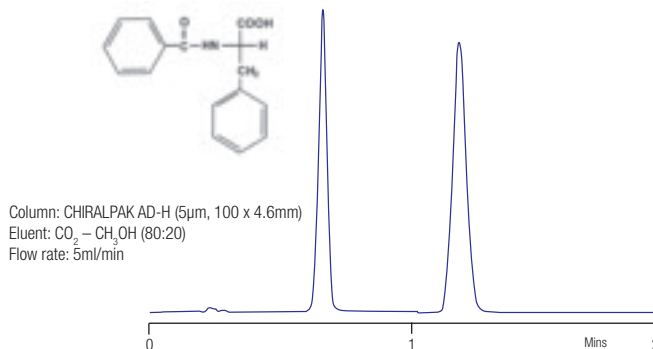


Figure 15. SFC separation of 1-naphthylethanol

Please see page 87 for ordering information for CHIRALPAK and CHIRALCEL SFC columns.

CHIRALPAK® QN-AX and QD-AX (Lindner Phase Columns)

- Reversed-phase or polar organic modes
- Wide solvent compatibility
- pH range 2 – 8

CHIRALPAK QN-AX and QD-AX are enantioselective weak anion-exchange (AX) columns. They are based on complementary stereoisomeric quinine (QN) and quinidine (QD) derivatives. Due to their pseudo enantiomeric character they usually reveal reversed elution order for opposite enantiomers.

These phases are designed specifically for enantioselective HPLC of chiral acids and show exceptional separation capabilities for acidic chiral compounds containing carboxylic, phosphonic, phosphinic, phosphoric or sulphonic acid groups. In some cases, weakly acidic compounds such as phenols can also be separated.

These two columns can be used in reversed-phase or polar organic modes. The separation of chiral basic and neutral compounds may also be possible, but usually under normal-phase conditions, when the phases behave like standard Pirkle type phases.

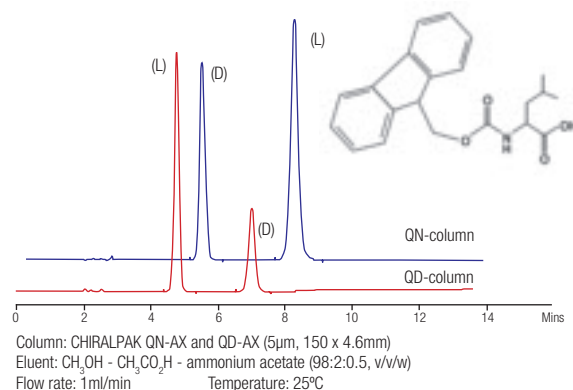
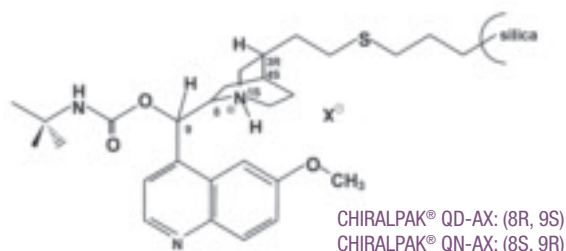


Figure 16. Analysis of Fmoc-Leu on CHIRALPAK QN-AX and QD-AX

Ordering Information

CHIRALPAK 5µm Phase	Column Dimensions (mm)			Analytical Guard Cartridges ¹ (3/pk) (For 4.6mm i.d. Columns)
	150 x 2.1	150 x 4.6	150 x 20	
QD-AX	31394	31324	31344	31311
QD-AX SFC	-	-	31444	-
QN-AX	32394	32324	32344	32311
QN-AX SFC	-	-	32444	-

¹ Use with holder 00011

and column coupler 000D1