

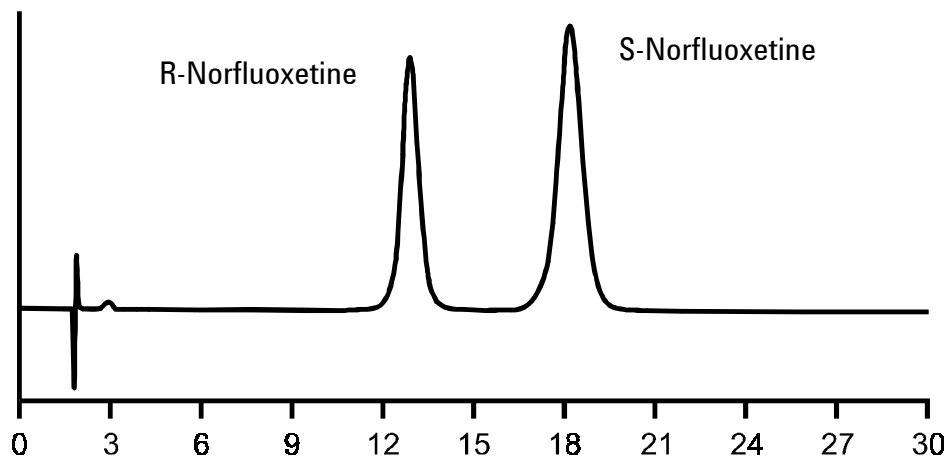
High-Resolution Chiral Separation of S- and R-Norfluoxetine Using Ultron ES-Pepsin

Application
Pharmaceutical
Robert Ricker

Methods for separation and accurate quantitation of chiral compounds is an important part of drug research and determination of drug purity. High resolution helps in the process, but it is often difficult to achieve this resolution in chiral separations. The chromatogram below shows exceptional resolution of R-Norfluoxetine and S-Norfluoxetine (Saproxetine) on the Ultron ES-Pepsin column.

Highlights

- The R- and S- chiral forms of Norfluoxetine are separated with high resolution (4.0) under these conditions, resulting in a rugged method and extending useful lifetime of the column.
- The Ultron ES-Pepsin column compliments Ultron ES-OVM, to achieve separations not previously possible.



Courtesy of D.S. Risley and V.S. Sharp of Lilly Research Laboratories, Eli Lilly and Co., see also J. Liquid Chromatogr. 19(3), 449-465 (1996).

Conditions:
ULTRON ES-Pepsin (4.6 x 250 mm) (Agilent P/N: 0724111653)
Mobile Phase: 6:94 (v/v) MeOH / 20mM KH₂ PO₄
Injection: 10µL, 1 mL/min, ambient, Detect. UV (225 nm)
Sample 50µg / mL of 2:3 mixture R- : S-Norfluoxetine



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