

## Separating the enantiomers of the antidepressant citalogram

Citalopram is one of the group of drugs known as selective serotonin reuptake inhibitors (SSRI) and is mostly used in the treatment of depression.

It is a racemic mixture of the enantiomers formed during the synthesis. Both the racemate and the eu-

tomer (active enantiomer) escitalopram are used for treatment.

Using CHIRAL ART Cellulose-C, a separation with a resolution of 2.2 is achieved in 3 minutes!

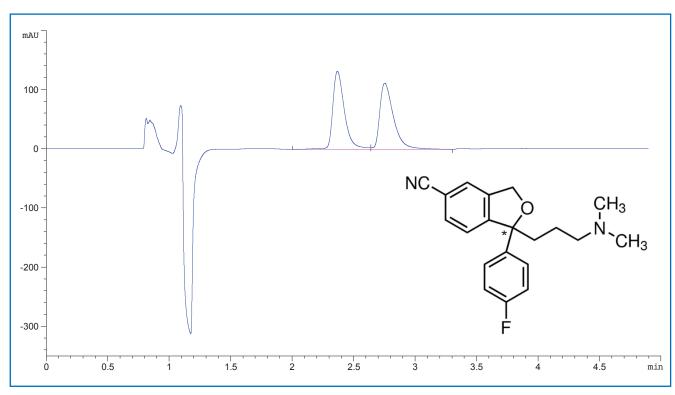


Figure 1: Separation of citalopram enantiomers using CHIRAL ART Cellulose-C

Table 1: Chromatographic conditions

Column: CHIRAL ART Cellulose-C (3 µm) 150 x 3.0 mm ID

Part No.: KCN99S03-1503WT

Eluent: *n*-hexane / 2-propanol / diethylamine (90/10/0.1)

Flow rate: 1 mL/min Temperature: 10 °C

Detection: UV at 220 nm Injection: 5 µL (0.5 mg/mL)