

Abstract

Drugs are often chiral compounds. In many cases only one of the enantiomers has required therapeutical effects.

Citalopram belongs to a group of chiral drugs. This drug is used as an antidepressivum for treating anxiety, fear or suppressing of pain feeling. Its synthetical precursor is named citadiol and this compound is also chiral.

HPLC method with chiral stationary phases based on macrocyclic antibiotics was applied for enantioseparation of above-mentioned compounds. Polar-organic and ionic-polar separation modes were found to be suitable for chiral separation of citalopram and citadiol enantiomers.

The aim of this work was monitoring of enantioseparation "behaviour" of selected enantiomers and to find suitable separations conditions using HPLC method.