Chiral separation of econazole using micellar electrokinetic chromatography with hydroxypropyl-gamma-cyclodextrin

Publons ID	4140062
Wos ID	WOS:000281576500016
Doi	10.1016/j.jpba.2010.07.030
Title	Chiral separation of econazole using micellar electrokinetic chromatography with hydroxypropyl-gamma-cyclodextrin
First Author	
Last Author	
Authors	Hermawan, D; Ibrahim, WAW; Sanagi, MM; Aboul-Enein, HY;
Publish Date	DEC 15 2010
Journal Name	JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS
Citation	25
Abstract	A cyclodextrin-modified micellar electrokinetic chromatography (CD-MEKC) method with hydroxypropyl-gamma-cyclodextrin (HP-gamma-CD) as chiral selector for the enantiomeric separation of econazole is reported. Enantioseparation of econazole was successfully achieved by the optimized CD-MEKC system containing 40 mM HP-gamma-CD, 50 mM SDS and 20 mM phosphate buffer (pH 8) solution with an analysis time of less than 9 min Calibration curves were linear for the two stereoisomers of econazole (r(2) > 0.998). Good repeatabilities in the migration time, peak area and peak height were obtained in terms of RSD% ranging from 030 to 7 67%. Combination of solid-phase extraction (SPE) procedure using diol column and the CD-MEKC method was successfully applied to the determination of econazole in a formulated cream sample (C) 2010 Elsevier B V All rights reserved
Publish Type	Journal
Publish Year	2010
Page Begin	1244
Page End	1249
Issn	0731-7085
Eissn	1873-264X
Url	https://www.webofscience.com/wos/woscc/full-record/WOS:000281576500016
Author	DADAN HERMAWAN