

## Chiral separation of vinpocetine using cyclodextrin-modified micellar electrokinetic chromatography

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<b>Abstract</b>	A cyclodextrin-modified micellar electrokinetic chromatography (CD-MEKC) technique has been developed for enantioseparation of vinpocetine using an inexpensive 2-hydroxypropyl-beta-CD (HP-beta-CD) as the chiral selector (CS). The best chiral separation was achieved using 40 mM HP-beta-CD as the CS in 50 mM phosphate buffer (pH 7.0) consisting of 40 mM sodium dodecyl sulfate (SDS) at a separation temperature and separation voltage of 25 degrees C and 25 kV, respectively. To the author's best knowledge, this is the first CD-MEKC study able to successfully separate the four stereoisomer of vinpocetine in separation time of 9.5 min and resolution of 1.043.87. Chirality, 2012. (C) 2012 Wiley Periodicals, Inc.
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