

Cyclodextrin-modified MEKC for enantioseparation of hexaconazole, penconazole, and myclobutanil

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Abstract	A CD-modified micellar EKC (CD-MEKC) method with 2-hydroxypropyl-gamma-CD (HP-gamma-CD) as chiral selector for the enantioseparation of three chiral triazole fungicides, namely hexaconazole, penconazole, and myclobutanil, is reported for the first time. Simultaneous enantioseparation of the three triazole fungicides was successfully achieved using a CD-MEKC system containing 40 mM HP-gamma-CD and 50 mM SDS in 25 mM phosphate buffer (pH 3.0) solution with resolutions (R _s) greater than 1.60, peak efficiencies (N) greater than 200000 for all enantiomers and an analysis time within 15 min compared to 36 min as previously reported using sulfated-beta-CD.
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