

Chem. Pharm. Bull., 49, 49-53 (2001).

**Chiral Recognition of Thiaheterohelicenes by Alkyl -D-Pyranoside Micelles.
Influence of Extension of Helix.**

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Chiral recognition of alkyl -D-pyranoside micelles toward [7] and [5]heterohelicenes possessing helical structures was investigated by ¹H-NMR and CD (circular dichroism) spectroscopy. In dodecyl maltopyranoside micellar solution, P and M enantiomers of tetrathia[7]heterohelicene (7TH), which have rigid and stable helices, manifested different chemical shifts in their ¹H-NMR spectra due to differences in the diastereomeric interactions, implying that the micelles undergo stronger recognition toward the M enantiomer than the P enantiomer. On the other hand, in octyl glucopyranoside micellar solution, trithia[5]heterohelicene (5TH) and two kinds of its derivatives which are rapidly equilibrated between the enantiomers in solution, gave no distinctly resolved ¹H-NMR peaks for either enantiomer even at a lowered temperature. However, these racemic [5]heterohelicenes in the micelles did develop induced CD absorptions owing to a displacement of the equilibrium, suggesting from the signs of their Cotton effects that the micelles prefer the M enantiomer to its antipode in conformity with the ¹H-NMR results of 7TH.