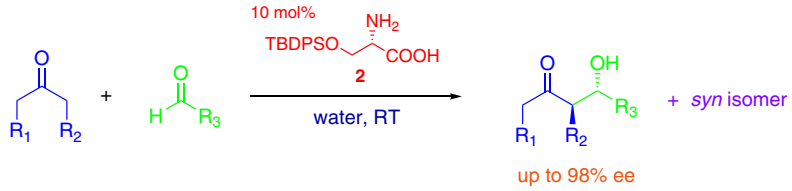
ELSEVIER

Tetrahedron:
Asymmetry

Tetrahedron: *Asymmetry* Vol. 18, No. 10, 2007

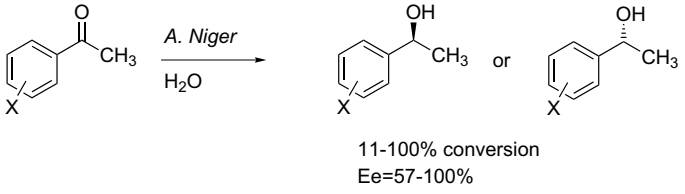
Contents

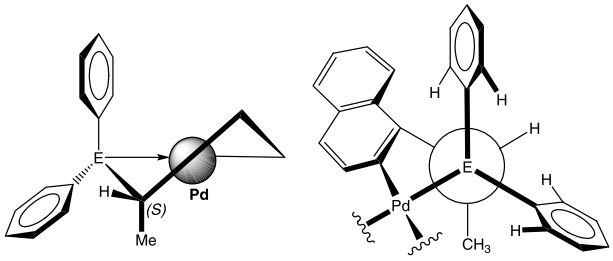
COMMUNICATION

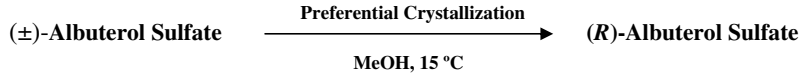


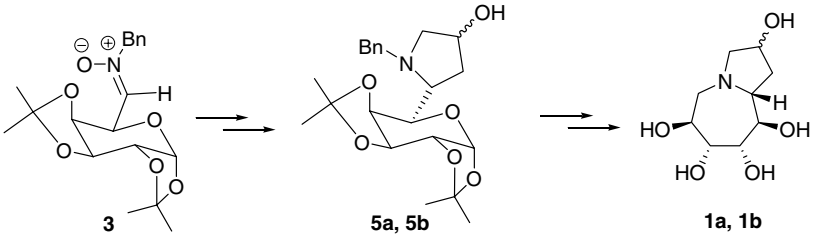
A siloxy-L-serine organocatalyst has been developed to catalyze the asymmetric direct aldol reactions in the presence of water, furnishing the β-hydroxy carbonyl scaffold in high enantio- and diastereoselectivities. The direct aldol reaction between a selection of aromatic aldehydes and cyclohexanone resulted in good yields and high enantioselectivities.

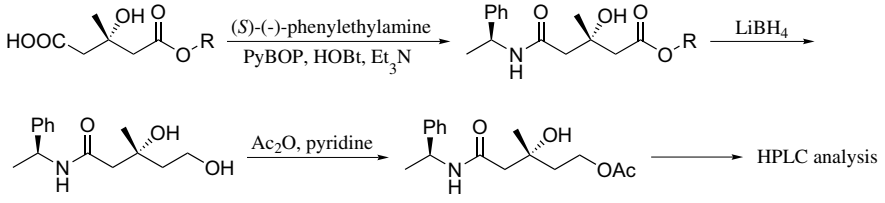
ARTICLES

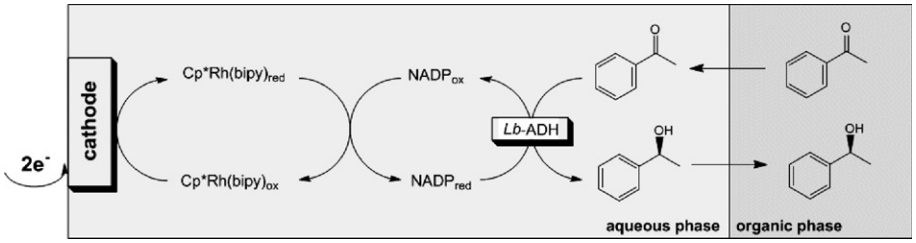


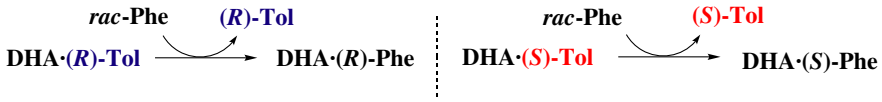




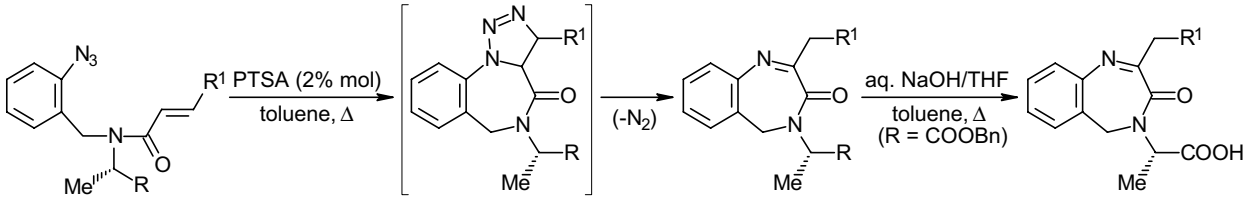




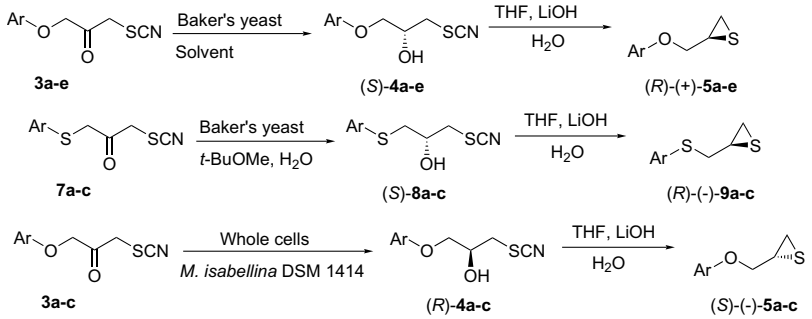


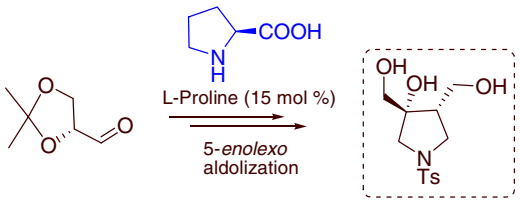


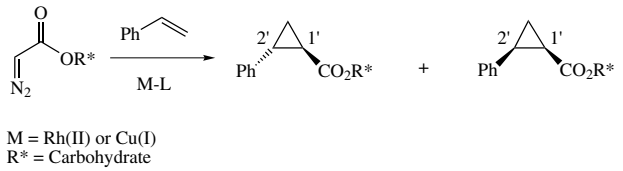
DHA: dehydrocholic acid, Tol: tolyl methyl sulfoxide, Phe: phenyl methyl sulfoxide

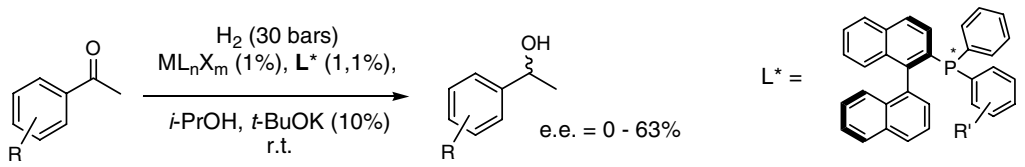


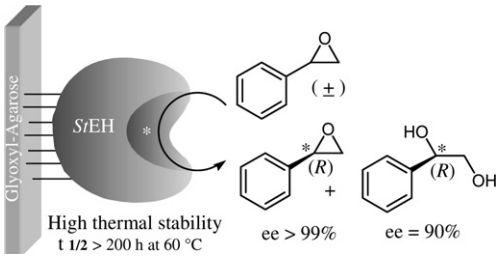
R = COOBn, Ph; R^1 = H, Me, Ph (6 examples)

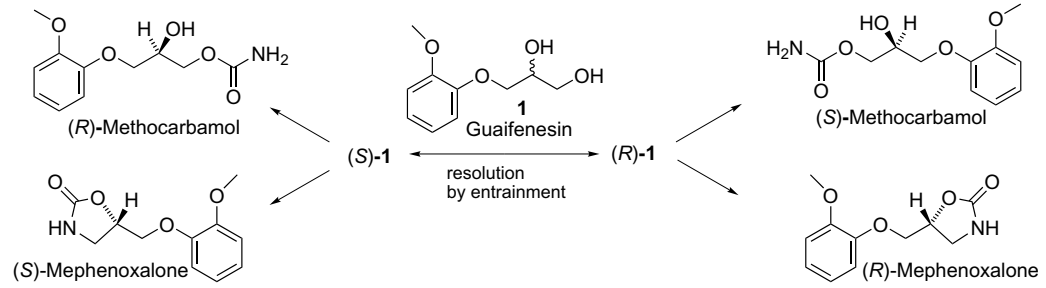


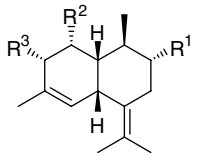




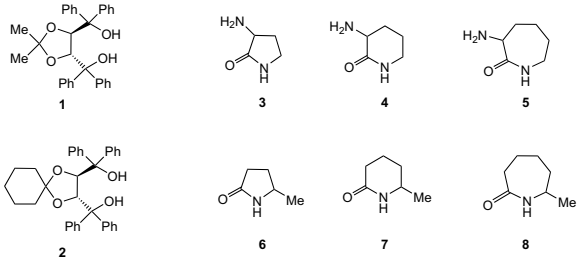




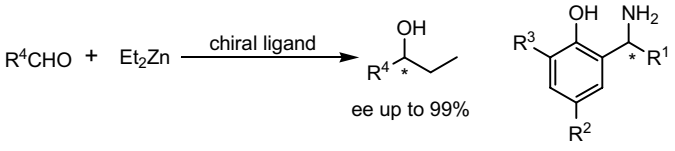




2 $R^1 = R^2 = R^3 = H$
3 $R^1 = R^3 = H$; $R^2 = OAc$
9 $R^1 = OH$; $R^2 = R^3 = H$
10 $R^1 = R^2 = H$; $R^3 = OH$
12 $R^1 = R^2 = H$; $R^3 = OAc$
13 $R^1 = R^2 = H$; $R^3 = =O$
16 $R^1 = R^3 = H$; $R^2 = OH$



1 **3** **4** **5**
2 **6** **7** **8**



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