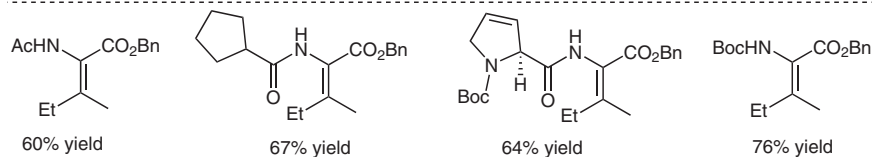
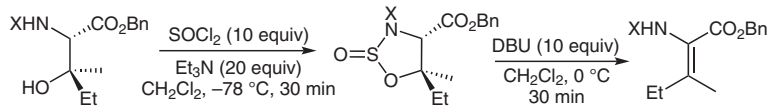


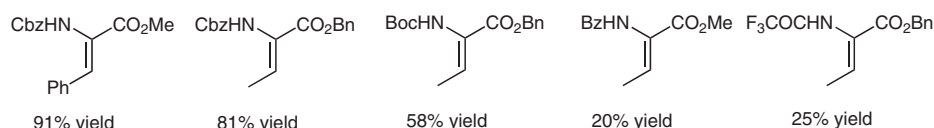
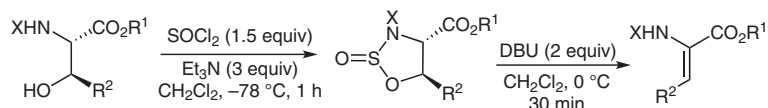
M. M. STOHLMEYER, H. TANAKA, T. J. WANDLESS\* (STANFORD UNIVERSITY, USA)  
 A Stereospecific Elimination to Form Dehydroamino Acids: Synthesis of the Phomopsin Tripeptide Side Chain  
*J. Am. Chem. Soc.* **1999**, *121*, 6100–6101.

## Synthesis of Dehydroamino Acids through Stereospecific Elimination

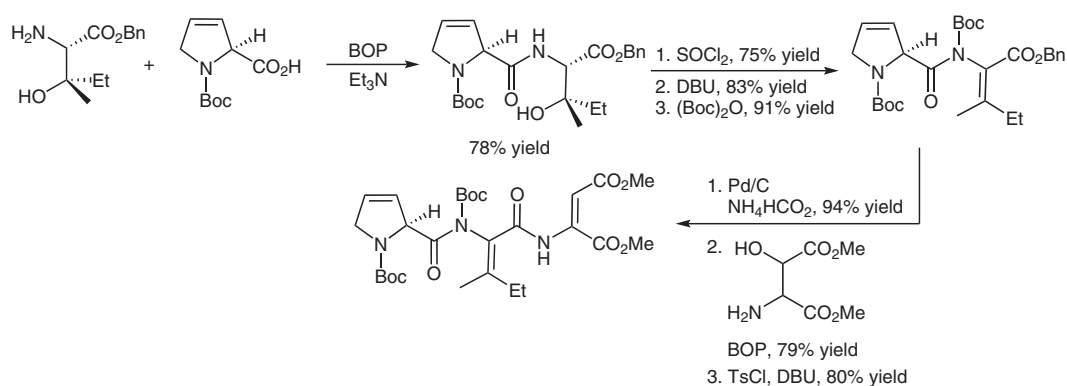
### Synthesis of dehydroamino acids from tertiary alcohols:



### Synthesis of dehydroamino acids from secondary alcohols:



### Synthesis of tripeptide side chain of phomopsin A:



**Significance:** Dehydroamino acids are present in various biologically active natural products. The authors have developed an efficient and stereoselective method for the synthesis of tri- or tetrasubstituted  $\alpha,\beta$ -dehydroamino acids from readily available  $\beta$ -hydroxyamino acids.

**Comment:** Cyclic sulfamidites, derived from readily available  $\beta$ -hydroxyamino acids, are efficient substrates for the stereoselective synthesis of  $\alpha,\beta$ -dehydroamino acids. The developed method was used in a synthesis of the tripeptide side chain of phomopsin A.